A.1: City of Stanwood
SWMP Mission and Vision

A.2: City of Stanwood
SWMP Policies

A.3: 2012 List of Regional
Detention Facilities

A.4: WRIA 5 Ecology Publication
#11-11-010, August 2012

A.5: Memorandum of Understanding
between
City of Stanwood and Diking District 7

A.6: Snohomish County R/D
Pond Maintenance Agreement

A.7: Memorandum of Understanding
between City of Stanwood and
Stillaguamish Tribe
for Watershed Improvements, May 2013

A.8: NHC Technical Memorandum to
PACE Engineers, Inc., March 2014
"Modeling Needs Recommendations"

A.9: SWM Data List Request to City
December 2013

A.10: SWM Questionnaire
March 2014

A.11: SWM Public Survey
January 2014

A.12: Public Survey Selection of
Mailed Responses, January 2014

A.13: Public Survey
Electronic Forms

A.14: Public Survey
Response Compilation

A.15: 2004 Budget Summary,
Drainage Fund

A.16: Drainage Complaint Summary

APPENDIX A.1
CITY OF STANWOOD DRAINAGE UTILITY
VISION, MISSION, AND GOALS

The City's Drainage Utility was developed with a specific vision that is described in the following statements that clarify the Utility's vision, mission and goals.

Vision:

To preserve and enhance the standard of living for the people of Stanwood by restoring and protecting the unique natural environment and water quality of the Skagit River Valley in order to strengthen economic conditions and enhance the overall quality of life for its citizens.

Mission:

The Mission of the City of Stanwood's Drainage Utility is to create the annual funding needed to develop and maintain a comprehensive stormwater infrastructure management program that protects property, health and safety; enhances quality of life; preserves and improves the environment to be responsive and sensitive to the needs of residents, property owners, and public partners.

Goals:

The goal of the City's updated SCP is to:

- Address flooding problems with drainage improvement policies, practices and projects to reduce the occurrence of flood damage to property.
- Review, enact, and enforce ordinances and policies as needed to manage prevent future flooding in or downstream of developed areas.
- Enhance water quality to preserve the natural environment while planning for future regulatory compliance with the Department of Ecology's Western Washington NPDES Phase II Permit.
- Enhance the natural environment to benefit people, fish and wildlife and add to the quality of life of the City's citizens.
- Provide adequate and sustained funding for the City's Drainage Utility and the City's SWMP with an equitable stormwater utility rate.

APPENDIX A.2
CITY OF STANWOOD DRAINAGE UTILITY
DRAINAGE AND STORMWATER MANAGEMENT POLICIES

This is the City's first Stormwater Comprehensive Plan and with increasing occurrences of flooding and the possibility of a future NPDES Phase II Permit, it was the appropriate time for the City to develop a SCP. The SCP builds on existing SWM policies and practices of the City in order to ensure that the goals of the Drainage Utility and the needs of the City's unique drainage system are being met.

The above goals are met by the development and implementation of specific policies, each with their own unique set of objectives. The three sets of policies include:

- Policies for Drainage and Flow-Control
- Policies for Water Quality
- Policies for Utility Finances

Each set of policies are discussed below.

Drainage and Flow-Control Policies

The City of Stanwood has their own Stanwood Municipal Code (SMC) that contains drainage and flow-control policies. This section provides a brief summary of those policies.

According to SMC Section 17.140: *Stormwater Management Performance Standards* the City is responsible for:

- Ensuring that developments are consistent with the land use, utilities and natural features elements of the Stanwood Comprehensive Plan.
- Minimizing water quality degradation and sedimentation in rivers, streams, ponds, lakes, wetlands, and other water bodies.
- Minimizing the impact of increased runoff, erosion, and sedimentation caused by land development and maintenance practices.
- Maintaining and protect groundwater resources.
- Minimizing adverse impacts of alternations on ground and surface water quantities, locations, and flow patterns.
- Decreasing potential landslide, flood, and erosion damage to public and private property.
- Promoting site planning and construction practices that is consistent with natural topographical, vegetation, and hydrological conditions.
- Maintaining and protecting the City of Stanwood's stormwater management infrastructure and those downstream.

- Providing a means of regarding clearing and grading of private and public land, while minimizing water quality impacts in order to protect public health and safety.
- Providing minimum development regulations and construction procedures that will preserve, replace, or enhance, to the maximum extent practicable, existing vegetation to preserve and enhance the natural qualities of lands, wetlands and water bodies. (Ord. 1164 § 4, 2004; Ord. 1110 § 3, 2002; Ord. 929 Ch. 10(J)(1), 1995).

By design, the primary function of the City's stormwater system is to convey urban runoff away from homes and businesses in order to reduce flooding during major storm events. The following policies support the goal of managing urban drainage to protect public and private property:

- Continuing to use the design criteria presented in the Department of Ecology's 2005 Stormwater Management Manual for Western Washington (SMMWW) that requires stormwater systems to be designed by an engineer.[1]
- Implementing the Department of Ecology's 2005 SMMWW or the latest edition adopted by the City for the design and construction of all stormwater facilities on new development or redevelopment sites.
- Ensuring that stormwater planning efforts are consistent with the comprehensive planning efforts of the City's Planning Department (i.e. roads, land use, water, sewer, parks, etc.).
- Continuing development of a public education and outreach program on the issues of stormwater, water quality and urban drainage.
- Requiring improvements to the City's stormwater system as part of new and redevelopment projects.
- Utilizing historic rainfall data to properly size stormwater collection and conveyance systems, including stormwater trunk lines.
- Implementing an ongoing stormwater Capital Improvement Program to design, repair and replace stormwater infrastructure throughout the City.
- Continue participation in the Stillaguamish Watershed Council.

Water Quality Policies

The goal of reducing stormwater pollution and protecting water quality throughout the Drainage Utility Service Area is achieved by implementing the following:

- Planning for compliance with the Federal Clean Water Act through compliance with the existing Department of Ecology's Western Washington NPDES Phase II Permit (*earliest date the City may be issued a Permit would be most likely be August of 2018*).
- Implementation of the Department of Ecology's 2005 SMMWW for water quality treatment design.

[1] Stanwood Municipal Code 17.140.050

- Continued participation in the Stillaguamish Watershed Council.
- Encouragement of Low Impact Development practices in CIP projects and new/redevelopment projects.
- Encouragement of land-use practices that limit the amount of impervious surface areas, including clustering of homes in single-family residential developments and preservation of the natural drainage systems and supporting natural vegetation.
- Encourage onsite infiltration and the development of landscape and screening standards that facilitate the dual purposes of both stormwater runoff control and that of increased stormwater infiltration.
- Eliminate illicit discharges and connections throughout the City.
- Implement and enforce the City's ordinances to reduce stormwater pollution from illicit discharges, construction activities and the operation and maintenance of post-construction stormwater facilities.
- Use the 2012 Low Impact Development Technical Guidance Manual for Puget Sound[2] to guide the use of LID types of Best Management Practice (BMPs) throughout the City.
- Develop, adopt and enforce floodplain and critical areas ordinances that protect the natural drainage systems and require maintenance to keep those systems clear of debris.

Financial Policies

The City's financial goal is to provide adequate and sustained funding for the City's Drainage Utility, including the, City's SWMP.

The City's financial goal is to provide adequate and sustained funding for the Drainage Utility, including the, City's SWMP. In order to meet this goal, the Drainage Utility's financial policies are:

- Maintain equitable and local utility rates.
- Use drainage utility rate methodologies that are consistent with other Western Washington NPDES Phase II Permittees.
- Ensure the drainage utility rate will generate the revenue needed to cover operating and capital costs for the City's SWMP.
- Pursue grants and low-interest loan opportunities for capital improvement projects and SWMP activities.
- Develop a plan for long-term stormwater infrastructure replacement, and ensure that is included in Policy #2 above.

[2] http://www.psp.wa.gov/LID_manual.php

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2012 RETENTION POND LIST

Trevor, as of now what are we maintaining? After we find out what the city owns we can update the list if Kevin says we don't have the man power to maintain HOA ponds.

RETENTION PONDS (need address/location)	CITY OWNED	CITY MAINTAINES MOW & WEED X Per Yr	CITY MAINTAINES SPRAY X Per Yr	NOTES
EMERALD GLEN 1	X			
~~EMERALD GLEN 2~~				
LINDSTROM ~~(HAGGEN)~~	X			
VILLAGE COMMONS (MOVIE THEATER)	X			
FOX HILL	X			
CHURCH CREEK				Homewood development INC
LINCOLN	X			
VIEW RIDGE	X			
CANDLE RIDGE 1 (85th)	X			
CANDLE RIDGE 2 (283rd)				HOA
PIONEER HILLS SOUTH				HOA
PIONEER HILLS NORTH (MYRTLE)	X			
HERITAGE WETLANDS				
SUMERSET				HOA
CEDARHOME FARMS (281st Pl)				HOA
FALCON MEADOWS (Thisle)	X			
CEDARHOME ESTATES (69th)	X			
CEDARHOME VISTA (Duck Pond)	X			
EAGLE HEIGHTS #1 286th and 72nd	X			
~~EAGLE HEIGHTS #2~~				
KYLIE PARK 1 285th and 70th	X			
KYLIE PARK 2 (286th & 72nd)				
KYLIE PARK 3 287th and 72nd				KYLIE PARK HOA
HAWKS PRAIRIE (69th Ave & 282nd Pl)				
FARM HOUSE ESTATES (72ND & 284TH)				
TAYLORS LANDING				
POND 1 (68th & 280th) East side of 68th				school district
POND 2 (68th & 280th) West side of 68th				Homeowner
COPPER STATION				copper station developer
86th and 280th	X			

P:\Retention Pond List.xlsx

	Name		Status	Parcel	Tract	SQ FT	Notes
1	Candle Ridge	Detention Pond	Conveyed to City	87800099800	998	22,586	
1	Candle Ridge	Open Space	Conveyed to City	87800099800	999 (open)	14,384	
1	Candle Ridge	Open Space	HOA	87800010100	101 & 102 (open space)	136,272	
2	Candle Ridge Div II	Detention Pond	HOA		4	22,570	
2	Candle Ridge Div II	Open Space		904900099900	1	38,839	
2	Candle Ridge Div II			904900099900	2	20,111	
2	Candle Ridge Div II			904900099900	3	8,560	
3	Cedarhome Estates	Detention Pond	Conveyed to City	128000099900		17,606	
3	Cedarhome Estates		NGPA Conveyed to Lots 1-11			18,900	
4	Cedarhome Farms	Detention Pond	HOA		998	29,198	
4	Cedarhome Farms	Landscape Tract			997	4,664	
4	Cedarhome Farms	NGPA	NGPA		999	13,742	
5	Cedarhome Ridge	Detention Tract	HOA		999	17,168	
5	Cedarhome Ridge	NGPA	NGPA	1000700001000		15,053	Lot 10
6	Cedarhome Vista	Detention Pond	Conveyed to City	1012600099900		11,365	
7	Church Creek Estates	Open Space/Detention Pond	HOA	796800050100		65,280	
8	Copper Station	Detention Pond	HOA	1067300098600		57,470	
8	Copper Station	Sewer Lift Station	Conveyed to City	1067300098500			
8	Copper Station	NGPA	NGPA		994	18807	
8	Copper Station	NGPA	NGPA		992	42278	
8	Copper Station	NGPA	NGPA		990	34894	
8	Copper Station	NGPA	NGPA		989	14282	
8	Copper Station	NGPA	NGPA		988	63191	
8	Copper Station	Open Space			986	19007	
8	Copper Station	Open Space			987		
8	Copper Station	Open Space			991	46383	
8	Copper Station	Open Space			996	7141	
8	Copper Station				997	7143	
8	Copper Station				998	34828	
8	Copper Station				999	46466	
8	Copper Station	Recreational Area	HOA			72383	
9	Eagle Heights	Detention Pond	Conveyed to City		999	12002	
10	Emerald Glen	Open Space	HOA		997	266665	
10	Emerald Glen	Open Space	HOA		998	36025	
10	Emerald Glen	Detention Pond	Conveyed to City			8340	

	Name		Status	Parcel	Tract	SQ FT	Notes
10	Emerald Glen		Along with Baron Devpmt Group	320429000203100		29185	
11	Falcon Meadows	Detention Pond/Open Space	Conveyed to City			28744	
11	Falcon Meadows	NGPA	NGPA/Conveyed to City/ With Buffer			27701	
11	Falcon Meadows	NGPA	NGPA/With Buffers			19980	Lots 8, 9 & 10 with Buffers
12	Farmhouse Estates	Detention Pond	Conveyed to City	105100000100		7963	
13	Hawk's Prarie	Detention Pond	Conveyed to City	1045400099900		18581	
13	Hawk's Prarie	Open Space	HOA		998	43565	
14	Kylie Park I	Detention Pond	Conveyed to City	135600099900		54220	
14	Kylie Park I	NGPA	NGPA/HOA	135600099600	998	1012830	
15	Kylie Park II	NGPA	NGPA/HOA	1356000996	996	32529	
15	Kylie Park II		Access Easement for City		999 from 998 (access only)	15075	
16	Kylie Park III	Detention Pond	HOA			22403	
17	Lincoln Ridge	Detention Pond/Open Space	Conveyed to City	820100001800		39143	
18	Lindstrom Development	Detention Pond	Conveyed to City	32042900201300		199940	
19	Pioneer Hills	Detention Pond (Myrtle Rd)	Conveyed to City	89060009970		20259	
19	Pioneer Hills	Detention Pond (Nordic Way)	HOA	890600008000		16964	
19	Pioneer Hills	Detention Pond (Nordic Way)	HOA	890600008100		11918	
19	Pioneer Hills	Tot Lots	HOA			38553	Phase I
19	Pioneer Hills	Open Space	HOA		A	21755	Phase I
19	Pioneer Hills	Open Space	HOA		E	42387	Phase I
19	Pioneer Hills	Open Space	HOA		B	50608	Phase II
19	Pioneer Hills	Open Space	HOA		C	20601	Phase III
19	Pioneer Hills	Open Space	HOA		D	102015	Phase III
20	Summerset	Detention Pond	HOA		997	20340	
20	Summerset	NGPA	NGPA	1014500099800	998, 999	124734	
21	Taylor's Landing	Detention Pond	Conveyed to City	955800010200		20445	
21	Taylor's Landing	Open Space	HOA		103	23181	
21	Taylor's Landing	NGPA	NGPA/HOA	955800010100		106088	
22	View Ridge	Detention Pond	Conveyed to City	908700099800		8643	
22	View Ridge	Open Space	Conveyed to City	908700099800		7000	
23	Fox Hills	Detention Pond	Conveyed to City	859700099000		59172	
23	Fox Hills	Open Space/Retention Area	Conveyed to City	857700099000		224653	
24	Bay View Lane	Open Space/Detention Pond		871300099900	A	6301	
24	Bay View Lane	Open Space/Detention Pond		871300099900	B	13151	

	Name		Status	Parcel	Tract	SQ FT	Notes
10	Emerald Glen		Along with Baron Devpmt Group	320429000203100		29185	
11	Falcon Meadows	Detention Pond/Open Space	Conveyed to City			28744	
11	Falcon Meadows	NGPA	NGPA/Conveyed to City/ With Buffer			27701	
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15	Kylie Park II	NGPA	NGPA/HOA	1356000996	996	32529	
15	Kylie Park II		Access Easement for City		999 from 998 (access only)	15075	
16	Kylie Park III	Detention Pond	HOA			22403	
17	Lincoln Ridge	Detention Pond/Open Space	Conveyed to City	820100001800		39143	
18	Lindstrom Development	Detention Pond	Conveyed to City	32042900201300		199940	
19	Pioneer Hills	Detention Pond (Myrtle Rd)	Conveyed to City	89060009970		20259	
19	Pioneer Hills	Detention Pond (Nordic Way)	HOA	890600008000		16964	
19	Pioneer Hills	Detention Pond (Nordic Way)	HOA	890600008100		11918	
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19	Pioneer Hills	Open Space	HOA		A	21755	Phase I
19	Pioneer Hills	Open Space	HOA		E	42387	Phase I
19	Pioneer Hills	Open Space	HOA		B	50608	Phase II
19	Pioneer Hills	Open Space	HOA		C	20601	Phase III
19	Pioneer Hills	Open Space	HOA		D	102015	Phase III
20	Summerset	Detention Pond	HOA		997	20340	
20	Summerset	NGPA	NGPA	1014500099800	998, 999	124734	
21	Taylor's Landing	Detention Pond	Conveyed to City	955800010200		20445	
21	Taylor's Landing	Open Space	HOA		103	23181	
21	Taylor's Landing	NGPA	NGPA/HOA	955800010100		106088	
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22	View Ridge	Open Space	Conveyed to City	908700099800		7000	
23	Fox Hills	Detention Pond	Conveyed to City	859700099000		59172	
23	Fox Hills	Open Space/Retention Area	Conveyed to City	857700099000		224653	
24	Bay View Lane	Open Space/Detention Pond		871300099900	A	6301	
24	Bay View Lane	Open Space/Detention Pond		871300099900	B	13151	

DEPARTMENT OF ECOLOGY
State of Washington

Focus on Water Availability

Water Resources Program **Revised August 2012**

Stillaguamish Watershed, WRIA 5

This focus sheet provides information on the availability of water for new uses in the Stillaguamish Watershed. This information provides a starting point for potential water users in determining the best strategies for securing water for a future project or proposal in this area.

The Stillaguamish Watershed, also known as Water Resource Inventory Area 5 (WRIA 5), is situated in the central part of Puget Sound and comprises the northwestern part of Snohomish County and the South central part of Skagit County. On its west side it is bounded by Puget Sound and its east side includes portions of the Cascade Mountain range. This watershed is sparsely populated.

This watershed includes the Stillaguamish River and its two forks which originate in the Cascade Mountains. The watershed also includes various smaller streams such as Jim, Pilchuck, and Canyon creeks.

Yearly precipitation ranges from 30-35inches in the coastal area to over 150 inches in the Cascades Mountains. Most of this precipitation arrives during the winter months when water demands are the lowest, and only a fraction becomes available for human and economic uses. During the summer, the snowpack is gone and there is little rain so low stream flows are dependent on groundwater inflow. This means that groundwater and surface water are least available when water demands are the highest.

Much of the water in the Stillaguamish watershed is already legally spoken for ("appropriated"). Increasing demands for water from ongoing population growth, declining groundwater levels in some areas and the impacts of climate change have put Washington's water supplies at risk. The Stillaguamish Watershed increasingly lacks water when and where it is needed, particularly during the summer months.

Factors affecting water availability

Most of the basin is closed to new withdrawals of both surface water and groundwater, due to the potential adverse impacts on protected streams and rivers.

Definitions

Consumptive use: A use of water that diminishes the quantity or quality of water in the water source.

Instream flow rule: Establishes a water right for streams in a particular watershed. The rule specifies the amount of water needed in a particular place for a defined time for each stream. Typical instream flow rules now include broader water management strategies.

Maximum allocation limits: Limits on total withdrawals available above the instream flow levels for specific streams at specific times.

Mitigation plan: A scientifically-sound plan intended to avoid impairment to existing water rights or capturing water from a closed source.

Reservation: A reservation of water is a one-time finite amount of water set aside for specific future uses. Reservations typically provide year-round water and have conditions of use required to access them.

Permit-exempt well: The state Ground Water Code allows for certain uses of small quantities of groundwater without obtaining a permit from Ecology. (RCW 90.44.050)

Instream Resources Protection and Water Resources Program rule

WRIA 5 has an instream flow and water management rule (WAC 173-505) to protect senior water rights, maintain a healthy ecosystem, and to meet future water resource management objectives. Such rules are required by state law (RCW 90.54).

There are currently specific, finite amounts of water available from reservations of water established in the rule for new year-round consumptive uses. But once these limited amounts are appropriated, obtaining new year-round water supplies in this watershed will be a very difficult, expensive, and lengthy process requiring technical studies, mitigation plans, and possible legal assistance due to potential adverse impacts on protected streams and rivers. The reservations of water are discussed in the next section.

Limits on surface water diversions and groundwater withdrawals during high flows
WAC 173-505 establishes maximum allocation limits on certain rivers at certain times, to preserve the environmental benefits of natural annual high flows. These are discussed in the next section.

Coastal areas of Puget Sound
Any proposed water withdrawals in the coastal areas of Puget Sound are evaluated for the risk of seawater intrusion into fresh groundwater supplies. Coastal applicants may need to develop an adequate mitigation plan to address the risk of seawater intrusion.

Water currently available for new uses

Reservations of water for specific purposes
Specific, finite quantities of water are available for domestic (household) uses and for stock watering purposes.

- Domestic reservation: 5 cubic feet per second (cfs) is reserved for permit-exempt groundwater use for domestic purposes. This total amount is further allocated as follows (WAC 173-505-090):
  - A maximum of 2 cfs can be appropriated from the North Fork Stillaguamish basin.
  - A maximum of 1.5 cfs can be appropriated from the South Fork Stillaguamish basin.
- Stock watering reservation: 1 cfs is reserved for stock watering uses on riparian grazing lands (WAC 173-505-080).

Interruptible water supplies
New water rights outside of the reservations are available, but would be subject to interruption when instream flows are not met on the Stillaguamish River and designated tributaries. Due to hydraulic connection between groundwater and surface water, groundwater use is also limited by surface water flows.

Withdrawals from lakes and ponds are limited to single in-house domestic uses only, not to exceed 150 gallons per minute (gpm). (WAC 173-505-060)

Maximum allocation limits on certain rivers
At certain times of the year, there is some water above the instream flows available for new uses. However, to preserve the environmental benefits of natural annual high flows, the rule limits the total amount allowed for allocation in specific streams at specific times. Uses are subject to the instream flows – that is, the water use may be interrupted if stream flow levels fall below the instream flows.

Name	Dates	Maximum total allocations (cfs=cubic feet per second)
Canyon Creek	Dec 1 – May 31	40 cfs
North Fork Stillaguamish River from river mile 17.6 to headwaters	Nov 1 – June 30	120 cfs
North Fork Stillaguamish River to river mile 17.6	Oct 16 – June 30	150 cfs
Pilchuck Creek	Oct 16 – May 31	50 cfs
South Fork Stillaguamish River	Nov 1 – June 15	150 cfs
Squire Creek	Nov 1 – Feb 15 and May 1 – June 30	20 cfs
Stillaguamish River	Oct 16 – June 30	300 cfs

Additional options for water supplies

You are encouraged to connect to an existing water system if available. This is the simplest and fastest option.

The groundwater permit exemption allows certain users of small quantities of groundwater (most commonly, single residential well owners) to construct wells and develop their water supplies without obtaining a water right permit from Ecology. (For more information about the groundwater permit exemption, refer to www.ecy.wa.gov/pubs/fwr92104.pdf.) The permit exemption may not be available to prospective water users in certain areas that have been closed to further appropriation because there is limited or no water available. Check with Ecology staff at the regional office for more information.

If you cannot hook-up to an existing system and are unable to access water from the reservations, processing an application through the Cost Reimbursement Program may be an option www.ecy.wa.gov/pubs/0511016.pdf.

For more information on this and other options, refer to "Alternatives for Water Right Application Processing" www.ecy.wa.gov/pubs/1111067.pdf.

Pending water right applications in this watershed

Washington water law is based on the "prior appropriation" system, often called "first in time, first in right." Applications for water from the same source must be processed in the order they are received. (There are certain exceptions, see "Additional options for processing water right applications" above.)

Ecology asks anyone who needs a water right (new, change, or transfer) to submit the pre-application consultation form and meet with us to review your water supply needs and project proposal.

- Apply for a New Water Right
  http://www.ecy.wa.gov/programs/wr/rights/newrights.html
- Apply to Change or Transfer a Water Right or Claim
  http://www.ecy.wa.gov/programs/wr/rights/change_transfer_use.html

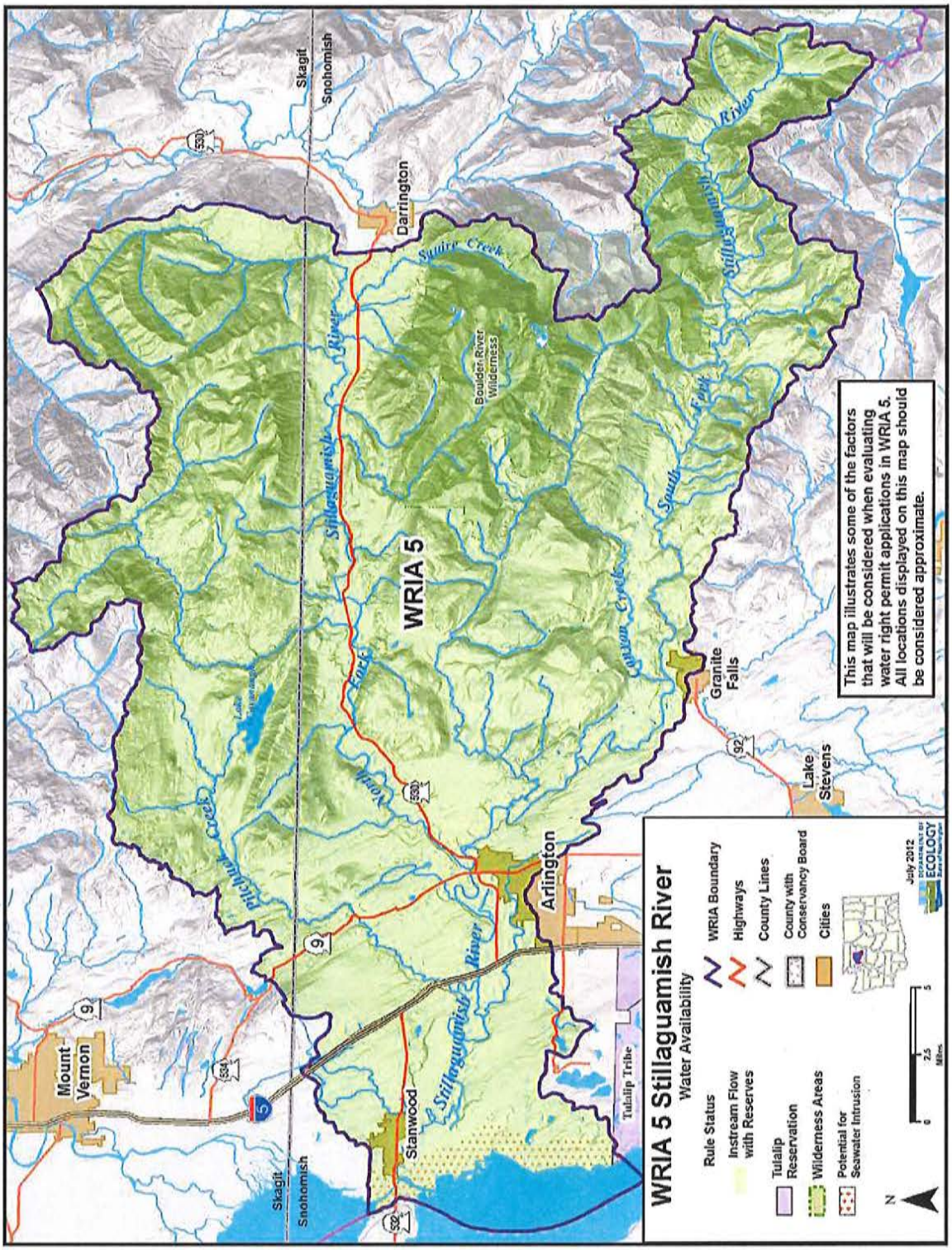
The map in this document shows some of the factors that will be considered when evaluating water right permit applications. Here are some information sources to assist you with your research:

- Locate and research water rights on land parcels anywhere in the state (Water Resource Explorer) http://www.ecy.wa.gov/programs/wr/info/webmap.html
- Pending Water Right Applications by County http://www.ecy.wa.gov/programs/wr/rights/tracking-apps.html
- Subscribe to a water right application RSS feed for a county or WRIA http://www.ecy.wa.gov/programs/wr/rights/wr_app_rss.html
- WRIA map showing the total number of water right claims, certificates, permits and applications http://www.ecy.wa.gov/programs/wr/rights/Images/pdf/waterright_wria_opt.pdf
- Search and view well reports using a variety of search tools http://apps.ecy.wa.gov/welllog/

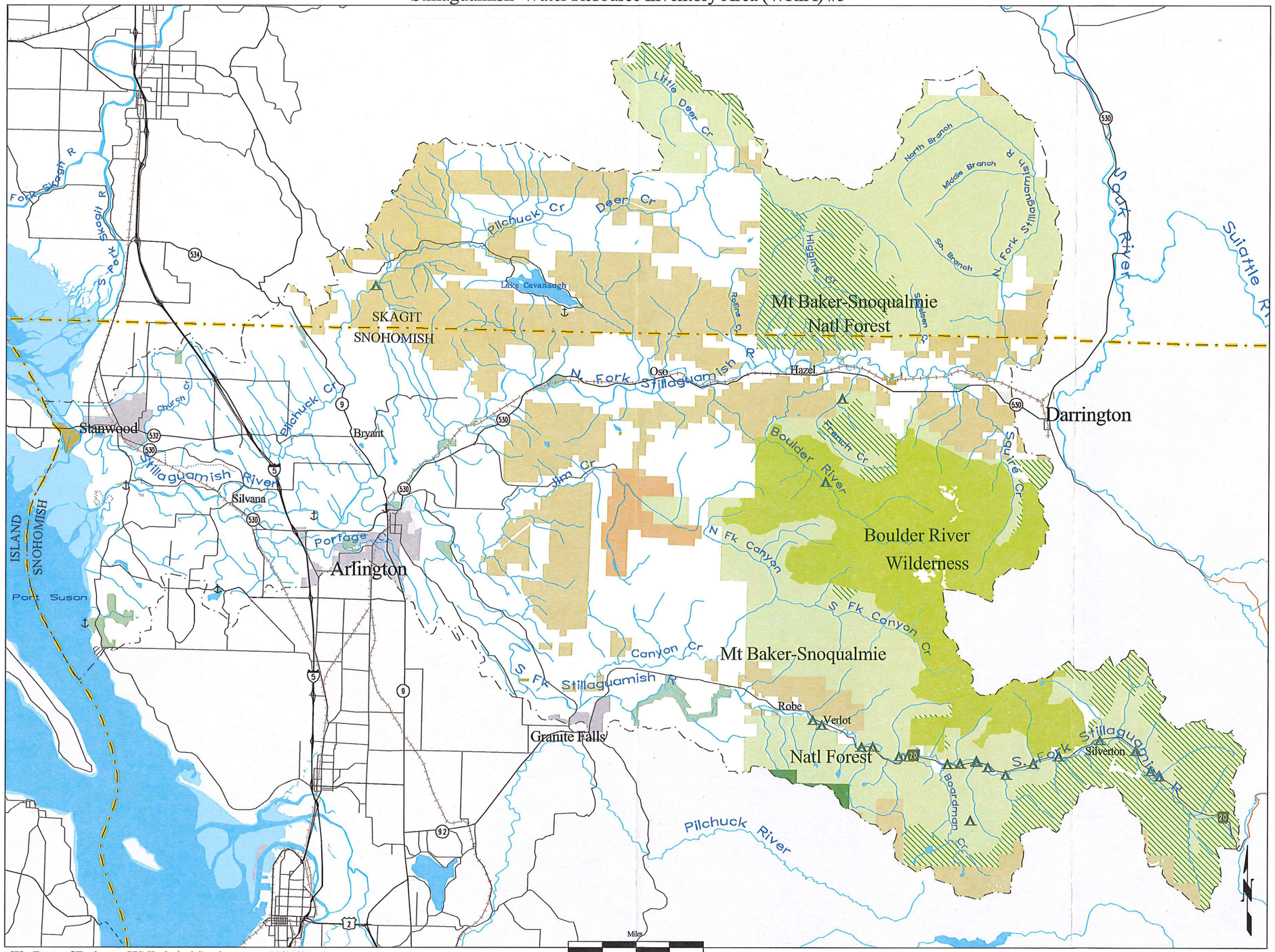
For more information

Northwest Regional Office
Water Resources Program
3190 160th Ave. SE
Bellevue WA 98008
425-649-7000

If you need this document in a version for the visually impaired, call the Water Resources Program at 360-407-6872. Persons with hearing loss can call 711 for Washington Relay Service. Persons with a speech disability can call 877-833-6341.


WRIA 5 Stillaguamish River
Water Availability
Rule Status
Instream Flow with Reserves
Tulalip Reservation
Wilderness Areas
Potential for Seawater Intrusion
WRIA Boundary
Highways
County Lines
County with Conservancy Board
Cities
July 2012
ECOLOGY
WRIA 5
Mount Vernon
Skagit
Snohomish
Stanwood
Arlington
Darrington
Granite Falls
Lake Stevens
Tulalip Tribe
Boulder River Wilderness
Squire Creek
Pilchuck Creek
Canyon Creek
This map illustrates some of the factors that will be considered when evaluating water right permit applications in WRIA 5. All locations displayed on this map should be considered approximate.

Stillaguamish Water Resource Inventory Area (WRIA) #5



Wa. Dept. of Ecology, GIS Technical Services 10/12/11

Major Public Lands mpl5

ORIGINAL

MEMORANDUM OF UNDERSTANDING

This Memorandum of Understanding ("MOU") is entered into as of November 1, 2012 ("Effective Date") by and between the City of Stanwood (the "City") and Drainage and Diking District 7 (the "District").

RECITALS

A. On March 7, 2012, a large sink hole was discovered on the seaward side of the District's sea dike. The sink hole was caused by a partial collapse of three tide gate culverts that drain the District's interior ditches. The District alerted the city and the county and filled the sinkhole with "fish mix" material as a temporary fix to keep the sea dike intact.

B. The District sent a letter to the City on June 1, 2012 requesting $25,000 to help repair the tide gates and restore the dike. City staff began working with District representatives to understand the nexus between the request and the City's proportionate share of the problem.

C. At the City council meeting on July 26, 2012, representatives from the District presented information regarding needed repairs to the sea dike west of Stanwood adjacent to Skagit Bay.

D. At the City council meeting on August 6, 2012, the City council discussed the District's request for a $25,000 contribution from the City to assist with funding the project. The City council directed staff to work with the District to determine a "nexus" between the project and the City's proportionate share, if any, to fund the needed repairs.

E. City staff reviewed technical documentation prepared by Snohomish County Surface Water Management (SWM) and other technical experts indicating the following nexus between the City of Stanwood and the District:

i. Storm water runoff from the City of Stanwood within the Douglas Creek Drainage Basin passes through the District's boundaries to reach Skagit Bay.

ii. Lack of efficient drainage to the sea could cause ground water to build up on the North-west side of Stanwood. Possibly impacting West Stanwood.

iii. Failure of the tide gate structure to close properly could put Stanwood at risk from sea water inflow at high tide and that water will not drain out efficiently since the agricultural land is now lower than the sea side.

iv. The dike structure at the tide gates or elsewhere could fail (collapse- wash away) in a storm tide situation and really flood from the north and west.

F. The tidgate and levee repair was completed in August and inspected by Snohomish County Surface Water Management. The final project accounting and as-built drawings have been received by City staff.

AGREEMENT

1. The Obligations of District and the City.

1.1 Diking and Drainage District 7 Obligations. In order to ensure long-tem maintenance and repair of the sea gates, levy and diking systems within the District's boundaries, the District shall:

1.1.1 Develop an annual maintenance plan that meets minimum best management practices for sea gates, levies, dikes and other flood control structures within the District that are adequately maintained during their useful life.

1.1.2 Prepare a 6-year and 20-year capital facilities plan for District facilities taking into account potential sea level increases and drainage run-off from surrounding watersheds.

1.1.3 Identify additional revenue sources to support long-term maintenance and repair of the District's sea gates, dikes and levy systems including but not limited to: increasing the District's levy rate; annexing additional areas into the District, applying for Federal, State and local grant funding; and negotiating interlocal agency agreements with Snohomish and Skagit Counties.

1.1.4 Construct improvements within the District's boundaries as needed to meet future population growth within the surrounding urban and rural areas that drain through the District's boundaries.

1.2 City Obligations. The City shall:

1.2.1 Obligate $8,600 towards the August 2012 repair of the sea gates north of the City limits to help protect the City from flooding during storm events and severe high tides.

1.2.2 Work with the District and Snohomish County to develop an annual maintenance plan that meets best management practices for retention, detention and conveyance of storm water within the area of the City that is a part of the Douglas Creek Drainage Basin.

1.2.3 Work with the District to secure additional revenues to support long-term maintenance and repair to the District's sea gates, dikes and levy system.

1.2.4 Consider adoption of low-impact development standards within the Douglas Creek Watershed.

2. Purpose and Effect of the Memorandum of Understanding (MOU). The purpose of this MOU is to document certain understandings reached by the District and the City. The District and the City acknowledge that additional binding documents (plans, funding, resolutions, etc.) are necessary to implement the terms of this MOU, and that such additional documents will be subject to substantive review and approval by the District and the City.

3. Term. This Memorandum of Understanding shall continue until the earlier of the effective date of an Interlocal Agency Agreement between the District, City and other Stakeholders within the Douglas Creek Drainage Basin or five (5) years from the Effective Date of this MOU.

4. Scope of This MOU. The Parties hereto have endeavored in this MOU to set forth their current understandings and intent solely with respect to the matters addressed herein. This MOU is not, however, intended to set forth in full detail the terms and conditions under which the parties may elect to proceed in the future in regard to maintaining, repairing, and/or improving sea gates, levies and other flood control structures within the District's boundaries. Any future commitments or obligations beyond those specifically set forth in sections 1.1 and 1.2 above shall be memorialized in a separate written agreement or instrument. Except as specifically provided herein, nothing contained in this MOU shall be construed to create a duty or obligation to the other party or any duty which exceeds that established under the law.

5. Notices. Any notices to be delivered on matters pertaining to this MOU shall be addressed as follows:

   If to the District

   Tyler Breum
   31718 Pioneer Hwy
   Stanwood, WA 98292

   If to the City:

   Mayor, City of Stanwood
   10220 – 270th Street
   Stanwood, WA 98292

6. Amendment to the MOU. This MOU may be amended only by a written instrument signed by the parties. The party proposing the amendment shall bear all costs of amendments to this MOU.

7. Waiver. The waiver by either party of a breach by the other of any provisions of this MOU shall not constitute a continuing waiver of any subsequent break of either the same or a different provision of this MOU.

8. Attorney's Fees. In the event any legal action is brought to enforce or interpret this MOU, the prevailing party shall be entitled to an award of reasonable fees, in addition to any other relief to which it may be entitled. Venue for any such action will be in Snohomish County.

9. Severability. The provisions of this MOU are severable. If any portion of this MOU is held invalid by a court of competent jurisdiction, the remainder of the MOU shall remain in full force and effect unless amended or modified by mutual written consent of the parties.

10. Dispute Resolution. In the event any dispute, disagreement, claim or controversy arises between the Parties concerning this Agreement or any of the provisions hereof (each, a "Disputed Matter"), Representatives from each party will meet and attempt to resolve the Disputed Matter through negotiations. If the representatives are unable to reach agreement, the Disputed Matter shall be referred jointly to the Mayor and a District Commissioner. If such individuals are unable to resolve the Disputed Matter within ten (10) days, then either the City or District may, upon written notice, submit the matter to mediation.

    Either party may commence mediation by providing to the other party a written request for mediation, setting forth the subject of the Disputed Matter and the relief requested. The parties will cooperate with one another in selecting a mediator and in scheduling the mediation proceedings. The parties each covenant that they will participate in the mediation in good faith, and that they will share equally in the costs of such mediation. Neither party may commence a civil action with respect to any Disputed Matter submitted to mediation until after the completion of the initial mediation session or 45 days after the date of filing the written request for mediation, whichever occurs first. Mediation may continue after the commencement of a civil action, if the parties so desire.

Executed as of the effective date, November 1, 2012.

THE CITY OF STANWOOD, a Washington municipal corporation

By: Dianne White

Mayor Dianne White

Its:

DIKING AND DRAINAGE DISTRICT 7, a Washington special district

By: Glen Johnson, Commissioner

Its:

ORIGINAL

AMENDMENT NO. 1 TO
INTERLOCAL AID AGREEMENT FOR MINOR STREET PROJECTS FOR MUNCIPAL SERVICES

THIS AMENDMENT NO. 1 TO INTERLOCAL AID AGREEMENT FOR MINOR STREET PROJECTS FOR MUNCIPAL SERVICES (the "First Amendment") is made and entered into this 27th day of ~~April~~ JUNE, 2013, by and between Snohomish County, a political subdivision of the State of Washington (the "COUNTY"), and City of Stanwood, a municipal corporation of the State of Washington (the "CITY").

WHEREAS, the COUNTY and the CITY executed an agreement entitled "Aid Agreement for Minor Street Projects for Municipal Services" (the "Original Agreement") on November 17, 1999, recorded under Snohomish County Auditor's File No. 200109250615;

WHEREAS, the COUNTY and the CITY wish to eliminate dollar limits on maintenance services commensurate with RCW 36.75.207 and RCW 35.77.020 through .040;

WHEREAS, the COUNTY and the CITY wish to further define "maintenance services" for purposes of complying with RCW 36.75.207 and RCW 35.77.020 through .040;

WHEREAS, the COUNTY and the CITY wish to include provisions by which to provide each other with notice as may be required under the Original Agreement and this First Amendment;

NOW, THEREFORE, for and in consideration of the mutual benefits conferred on both parties, the parties agree as follows:

Section 1. Section 1, subsection b of the Original Agreement is amended to read as follows:

For purpose of this Agreement, "municipal services" shall include but not be limited to the following:

1. Construction of small capital projects on City streets and bridges, not subject to mandatory competitive bidding, as determined by the City, and which do not exceed $10,000 for a single project or activity as established by state law.

2. Maintenance services on City streets and bridges (including, but not limited to the list of municipal road and street services contained in Appendix A and B), to maintain the facility, as nearly as practical in its original as constructed condition or its subsequently improved condition, and the operation of roadway facilities and services to provide satisfactory and safe motor vehicle transportation.

City of Stanwood
Contract #2013-025

3. Engineering and administrative services including clerical services, necessary for the planning, establishment, construction, and maintenance of the streets and bridges of the City.

Section 2. A new section, Section 10, is added to the Original Agreement to read as follows:

Notice. All notices required to be given by any party to the other under this Agreement shall be in writing and shall be given in person or by mail to the addresses set forth below. Notice by mail shall be deemed given as of the date the same is deposited in the United States mail, postage prepaid, and addressed as provided in this paragraph.

Owen Carter, P.E.
County Engineer
Department of Public Works
3000 Rockefeller Avenue, M/S 607
Everett, WA 98201

Kevin Hushagen
Director of Public Works
City of Stanwood
26729 98th Drive NW
Stanwood, WA 98292

Section 3. All other terms and conditions of the Original Agreement shall remain in full force and effect except as expressly modified by this First Amendment.

IN WITNESS WHEREOF, the parties hereto have executed this First Amendment as of the day and year first written above.

COUNTY:

Snohomish County, a political subdivision of the State of Washington

By _____
Name: Owen B. Carter, P.E.
Title: County Engineer

CITY:

City of Stanwood, a municipal corporation of the State of Washington

By _____
Name: Dianne White
Title: Mayor

Approved as to Form:

06-27-13
Deputy Prosecuting Attorney

Approved as to Form only

City Attorney

APPENDIX A
MUNICIPAL ROAD AND STREET SERVICES
Snohomish County - Road Maintenance Division

Work Operations (Estimates provided on a per project basis)
Drainage:
• **Catch Basin Routine Maintenance:** Manually clean catch basins to ensure drainage flow is not restricted. This includes removing debris from the inlet and/or cleaning the catch portion of the structure.
• **Catch Basin Mechanical Cleaning:** Mechanically remove sediment and debris from the catch basin using a vactor or eductor truck using vacuum hose and water jet as necessary to ensure drainage system remains free of material and flows are not restricted.
• **Culvert Cleaning, and Inspection, Manual:** Inspecting and manually cleaning culvert inlets and outlets.
• **Culvert Cleaning, Mechanical:** Use mechanical equipment for cleaning the culvert such as vactor, flusher or a backhoe to clean inlets and outfalls to remove obstructions.
• **Detention/Retention Basin Maintenance:** Remove accumulated sediment, vegetation and debris from detention/retention basins to maintain design capacity to allow for proper function of the structure. Removal may be by manual or mechanical means and may include cleaning inlet and outlet grates/pipes.
• **Ditch Maintenance:** Cleaning or re-shaping a man-made, open, storm water conveyance system that was constructed to carry storm water onto, through, or away from the highway right-of-way (i.e., not a modified stream). This operation does not include the acquisition of any permitting if required.
• **Underground Retention/Detention Facility Maintenance:** Mechanically or manually clean and/or inspect underground detention/retention facilities on the right of way to maintain proper design capacity for the structure. This activity requires compliance with confined space regulations.
Pavement Maintenance and Repair:
• **Crack and Joint Sealing:** Repair defects in pavement surface by installing crack filling material to prevent water from entering the sub-grade. Cracks are cleaned and routed prior to filling.
• **Install Lane Markers/Raised Pavement Markers:** Install lane markers to replace worn markers or to facilitate design changes in the channelization.

• **Installation, Maintenance and Repair of Guardrail:** Maintain and repair guardrail; adjust cable tension; repair damage caused by collisions; upgrade terminal end sections; adjust height and alignment; Install new guardrail to design specifications.
• **Manual Pavement Patching:** To repair the road surface by hand spreading asphalt mix (typically hot mix), raking to establish proper grade and compacting with a roller or other available means. Repair potholes, edge failures, dips, etc.
• **Pavement Markings -Thermo-plastic/Durable:** Apply durable channelization material (typically thermo-plastic) to the roadway to delineate the lane limits.
• **Pavement Markings - Paint**: Applying channelization to the roadway surface to delineate lane limits, such as edge lines (including gore lines), skip lines, no pass lines, centerlines, etc.
• **Sweeping & Cleaning Pavement with Mechanical Pickup Broom:** Use mechanical pickup sweeper to remove sand, dirt and accumulated debris from the roadway and shoulders. Special consideration: An advance person may be needed to pick up large debris prior to the sweeping operation. Additional trucks may be needed to haul the sweeper spoils to an approved waste site. 'No Parking' signs may be needed in advance.
• **Traffic Sign Repair, Replacement, Maintenance and Installation:** Repair, replace, maintain; or install new traffic signs to ensure operational safety is maintained on the roadway system.
Shoulder Maintenance:
• **Grade / Reshape Shoulders:** Use motor grader to pull aggregate from shoulder slope back towards the roadway to eliminate the vertical edge at the edge of pavement.
• **Shoulder Buildup Removal:** Use a motor grader and belt loader to remove buildup of sand, dirt and vegetation at the edge of shoulder to allow for proper drainage.
Snow & Ice:
• **Anti-Icing and De-icing Application, Liquids:** Apply anti-icing liquid to the roadway to reduce the probability of ice forming on the roadway. Apply de-icing liquids to the roadway to aid in ice removal.
• **Plowing/Sanding/Solid Deicer Application:** Remove accumulated snow and slush from the roadway and shoulder of the roadway with a truck-mounted snowplow. Apply sand or other abrasives to roadways to improve traction during freezing weather and snowstorm conditions. This may include sand applied with pre-wet salt systems or blended with salt in solid form.
Vegetation:
• **Control Vegetation Obstructions - Manual:** Remove vegetation obstructions by manual methods, i.e. shovels, weedeaters, cutters or pulling weeds, to ensure visibility of signing and intersections.
• **Cutting/Pruning/Selective Thinning:** Use hand tools to cut, trim or thin small amounts of plants in or around planting beds.

• **Noxious and Nuisance Weed Control - Spot Spray Non-power Equipment:** Use hand sprayer to control noxious weeds, as identified on the state or county noxious weed list, with approved herbicides applied at the recommended application rate. Also manually spray nuisance weeds. An herbicide application record is required for the treated area.
• **Nuisance Vegetation Control - Manual:** Use of manual means, i.e., hand operated trimmers, mowers, lopping shears, hand sprayer, saws, axes, to control undesirable vegetation obstructing line of sight or clear zone i.e., alders, blackberries and certain species of grasses.
• **Nuisance Vegetation Control - Mechanical:** Use power-operated equipment, i.e., mowers and brush cutters, to control undesirable vegetation i.e., alders, and blackberries, etc.
• **Tree Trimming/Tree Canopy Maintenance:** Use boom truck/bucket truck, saws and chippers to trim trees and canopied/encroaching shrubs to maintain clear zones, sight distance, pedestrian access, etc.
• **Roadside Mowing:** Mow with mechanical mower to control grass height and trim undesirable vegetation.

Other services provided:
• **Call-out Response for urgent or emergency situations**
• **Catch Basin/ Manhole Repair or Replacement**
• **Chip Seals; Project or Patching**
• **Culvert Repair or Replacement**
• **Guidepost and Delineator Replacement**
• **Hauling and Disposal of Waste Material**
• **Hydro Seeding and Mulching**
• **Instructor, Equipment Training and Other Training Courses**
• **Maintenance and Repair of Concrete Structures**
• **Mechanical Pavement Patching, Paverbox**
• **Noxious Weed Control - Mechanical**
• **Noxious Weed Control - Manual**
• **Pavement Milling/Full Depth Repair (small, localized areas)**
• **Pavement Patching with Subgrade Repair**
• **Rip Rap and Cribbing Repair**
• **Seeding, Mulching, and Planting including native species.**
• **Shoulder Washout Repair**
• **Slope Repair, Slide Clean up & Maintenance**
• **Traffic Control for Mobile Operations**
• **Traffic Control for Stationary Operations**
• **Vactor Waste Recycling/Disposal**

APPENDIX B
MUNICIPAL ROAD AND STREET SERVICES
Snohomish County – Bridge Operations

Work Operations (Estimates provided on a per project basis)
Bridge Inspection:
• **Bridge Inspection Services:** Routine and special bridge inspections, completion of bridge inspection reports (including photos and descriptions of the inspection), and entry of bridge inspection data into the Washington State Bridge Inventory System. The County's performance of inspections and reports shall be consistent with the National Bridge Inspection Standards as set forth in the current version of the Washington State Bridge Inspection Manual.

Other services provided:

MEMORANDUM OF UNDERSTANDING BETWEEN THE STILLAGUAMISH TRIBE AND THE CITY OF STANWOOD FOR COORDINATED WATERSHED IMPROVEMENTS

This Memorandum of Understanding ("MOU") is entered into as of May 1, 2013 by and between the City of Stanwood (the "City") and Stillaguamish Tribe (the "Tribe").

RECITALS

A. As government entities, the Tribe and the City ("Parties") have a common responsibility within the Stillaguamish Watershed to protect and enhance habitat for Chinook salmon and other species listed as threatened or endangered under the Endangered Species Act (ESA).

B. One of the primary missions of the Stillaguamish Tribe is to manage, protect, and conserve those natural resources that are required to sustain healthy populations of fish, shellfish, and wildlife within the Stillaguamish Watershed.

C. The City of Stanwood has an additional responsibility to meet the goals of Vision 2040 and to protect and provide urban levels of service within its corporate limits under the Growth Management Act (GMA).

D. The Tribe and the City have approved the Stillaguamish Salmon Recovery Plan. The Recovery Plan is intended to provide guidance to local stakeholders in a collaborative effort to restore and protect Chinook salmon populations in the Stillaguamish River watershed.

E. The Recovery Plan recommends habitat projects to restore watershed processes that affect Chinook salmon populations, protection of existing habitat through regulatory and nonregulatory strategies, stewardship education and outreach, and a monitoring and adaptive management plan.

F. Stanwood's location at the confluence of Stillaguamish River, Port Susan Bay and Skagit Bay is adjacent to habitat restoration sites identified in the Stillaguamish Salmon Recovery Plan and supported by the Stillaguamish Watershed Council.

G. The Salmon Recovery Plan recommends informing adjacent property owners and other stakeholders during feasibility and design phases to ensure broad-based community support and appropriate project design.

H. The City of Stanwood and the Stillaguamish Tribe are seeking to work together as government entities, co-partners, and adjacent property owners to meet their shared and individual responsibilities under the Growth Management Act and Endangered Species Act.

FINDINGS

A. The Stillaguamish Tribe has identified areas for estuary habitat enhancement that encompass the Stillaguamish floodplain, Port Susan Bay and Skagit Bay.

B. The Stillaguamish Tribe has purchased land commonly known as the "Matterand Property" with the intent of removing the levees that protect the land from salt water inundation in order to restore the land to estuary habitat. The Matterand property is adjacent to the city limits of Stanwood.

B. Computer modeling of the proposed project indicate removing the levees protecting the Matterand Property could result in increased siltation and reduced function at two locations where the city's stormwater is discharged into the Stillaguamish river.

C. The Stillaguamish Tribe is seeking funding from the Washington State legislature and other public sources to perform additional studies to determine the potential impacts of removing the levees around the Matterand property.

D. The City of Stanwood has identified capital improvements adjacent to the Matterand property including property acquisition, stormwater management, passive recreation facilities, habitat restoration and flood protection.

E. There is an opportunity for the City and the Tribe to partner together and jointly review scientific data, studies, and public input in support or opposition of proposed capital investments to meet the goals of the City and the Tribe.

AGREEMENT

1. The Obligations of Tribe and the City.

1.1 Obligations. In order to ensure participation and input on proposed projects with the potential to impact the City and/ or the Tribe, the Parties shall:

1.1.1 Meet early in the environmental review process in order to establish an initial agreement regarding the process for the government-to-government consultations.

1.1.2 Engage in both formal and technical consultation concerning applicable issues (e.g., modeling, scientific reports, etc.).

1.1.3 Invite representatives to all working group meetings.

1.1.4 Meet with elected and appointment officials and appropriate committees at major project milestones.

1.1.5 Keep representatives informed throughout the project planning, permitting and development process. In acknowledgement that the Parties must afford each other with more than the opportunity to participate as members of the general public in the planning and permitting process, the Parties will take the following actions to ensure there is effective government-to-government consultation:

1.1.5.1 Seek input regarding alternatives and opportunities to avoid, reduce, or otherwise mitigate the effects of the project on city interests.

1.1.5.2 Seek comment throughout the project's environmental review, permitting and regulatory review processes.

1.1.5.3 Give positive consideration to comments received throughout the permitting, regulatory, planning, and design processes of the project.

1.1.6 Engage in an open exchange of information about the project, its potential impacts, and appropriate mitigation.

1.1.7 Resolve effects projects may have on either Parties' responsibilities under the GMA and ESA.

1.1.8 Reach a full and fair settlement on any related issues in a manner that is compatible with the mutual interests of the City, the Tribe, and the objectives of the project.

1.1.9 Work to secure additional revenues to support planned and proposed capital investments.

2. Purpose and Effect of the Memorandum of Understanding. The purpose of this MOU is to document certain understandings reached by the Tribe and the City. The Tribe and the City acknowledge that additional binding documents (plans, funding, resolutions, etc.) may be necessary to implement some terms of this MOU, and that such additional documents will be subject to substantive review and approval by the Tribe and the City. Nevertheless, both parties intend that this MOU create obligations that each party agree to undertake.

3. Term. This Memorandum of Understanding shall continue until either party gives written notice sixty (60) days prior to the anniversary of the effective date.

4. Not Entire Agreement. The Parties hereto have endeavored in this MOU to set forth their understanding and intent with respect to the matters addressed herein. This MOU is not, however, intended to set forth in full detail the terms and conditions under which the parties are to proceed in regard to maintaining and repairing sea gates, levies and other flood control structures within the Tribe's boundaries.

5. Notices. Any notices to be delivered on matters pertaining to this MOU shall be addressed as follows:

   If to the Tribe

   Chairman, Stillaguamish Tribe
   3310 Smokey Point Drive
   Arlington, WA 98223

   If to the City:

   Mayor, City of Stanwood
   10220 – 270th Street
   Stanwood, Wa 98292

6. Amendment to the MOU. This MOU may be amended only by a written instrument signed by the parties. The party proposing the amendment shall bear all costs of amendments to this MOU.

7. Waiver. The waiver by either party of a breach by the other of any provisions of this MOU shall not constitute a continuing waiver of any subsequent break of either the same or a different provision of this MOU.

8. Attorney's Fees. In the event any legal action is brought to enforce or interpret this MOU, the prevailing party shall be entitled to an award of reasonable fees, in addition to any other relief to which it may be entitled. Venue for any such action will be in Snohomish County.

9. Severability. The provisions of this MOU are severable. If any portion of this MOU is held invalid by a court of competent jurisdiction, the remainder of the MOU shall remain in full force and effect unless amended or modified by mutual written consent of the parties.

10. Dispute Resolution. In the event any dispute, disagreement, claim or controversy arises between the Parties concerning this Agreement or any of the provisions hereof (each, a "Disputed Matter"), Representatives from each party will meet and attempt to resolve the Disputed Matter through negotiations. If the representatives are unable to reach agreement, the Disputed Matter shall be referred jointly to the Mayor and the Tribal Chairman. If such individuals are unable to resolve the Disputed Matter within ten (10) days, then either the City or Tribe may, upon written notice, submit the matter to mediation.

    Either party may commence mediation by providing to the other party a written request for mediation, setting forth the subject of the Disputed Matter and the relief requested. The parties will cooperate with one another in selecting a mediator and in scheduling the mediation proceedings. The parties each covenant that they will participate in the mediation in good faith, and that they will

share equally in the costs of such mediation. Neither party may commence a civil action with respect to any Disputed Matter submitted to mediation until after the completion of the initial mediation session or 45 days after the date of filing the written request for mediation, whichever occurs first. Mediation may continue after the commencement of a civil action, if the parties so desire.

Executed as of the date first written above.

THE CITY OF STANWOOD, a Washington municipal corporation

By:_____ Date:_____

Mayor Dianne White

Its:

Stillaguamish Tribe, a Native Sovereign Nation

By: _____ Date:_____

Chairman Shawn Yanity

Its:

Memorandum

Northwest Hydraulic Consultants
16300 Christensen Road, Suite 350
Seattle, WA 98188
206.241.6000
206.439.2420 (fax)

DATE: March 31, 2014 NHC PROJECT: 200155

TO: Joe Simmler

COMPANY/AGENCY: Pace Engineering

FROM: Derek Stuart, P.E.

SUBJECT: Modeling Needs Recommendations for Stanwood Stormwater Comprehensive Plan

Background

The City of Stanwood (City) is in the process of updating their Stormwater Comprehensive Plan with assistance from a consultant team consisting of Pace Engineers and its subconsultant Northwest Hydraulic Consultants (NHC). One of the primary objectives of the updated plan is to create a stormwater CIP Plan that addresses flooding concerns within the City. A draft inventory of these concerns consisting of more than 50 items was completed in early March, 2014 and the City has requested that NHC provide a summary of the benefits and costs of hydrologic and hydraulic stormwater modeling to define projects at a level necessary for incorporation in the updated plan. NHC's recommendations for stormwater modeling are included herein.

Potential Uses of Stormwater Models

Before recommending where stormwater models are most warranted for application within the City, it is necessary to first review what questions they are most commonly used to answer. There are three basic types of questions relating to stormwater system infrastructure that stormwater models are most commonly used for. These types of questions are listed below along with some hypothetical example questions and answers.

1. **Risk Characterization –**

   Question: What is the risk of flooding due to limitations in the existing stormwater system due to future development (additional impervious area), or other factors (e.g. sea-level rise, sedimentation, etc.)?

   Answer: Main Street is currently expected to flood to greater than 1 foot of depth once every 10 years but will flood to that depth once every 2 years when the City's full zoning density is full built-out.

2. **Identification of Problem Locations –**

   Question: What elements in my stormwater system are not meeting my performance standard?

   Answer: The flooding at the mayor's house is caused by a pipe on 92nd Avenue that is too small to convey runoff from the 25-year storm (a common design standard).

3. **Sizing New Infrastructure for CIP Planning and Design –**

   - How big does the pipe, ditch, or channel need to be to prevent flooding in the 25-year storm?
   - How big does a pump and/or pump-station forebay volume need to be to convey the 50-year storm?
   - How large does a stormwater pond or infiltration facility need to be to control the total volume of runoff in my stormwater system during storm events?
   - How tall does the levee or floodwall need to be to exclude riverine flood waters from downtown?
   - What are water quality design discharges for water quality treatment?
   - How much sediment can we allow to accumulate in our system without compromising performance?

All three of these types of questions listed above are applicable within the City of Stanwood but within the context of the CIP project, identification of problem locations and sizing of new infrastructure are the two uses most needed.

Prioritizations and Estimated Costs for Stanwood CIP Plan Modeling

The City's stormwater modeling options were prioritized by reviewing the City's draft inventory of drainage problems to identify those that would answer the questions listed above. Those with an identified modeling need were grouped together into eight areas of the City that could be addressed with a single model or modeling approach. These areas are mapped in Figure 1 (attached). Additional background detail for the drainage issues in each area is also provided in Appendix A.

Each modeling area was then assigned a ranking with respect to its priority for being modeled within with the scope of the current Stormwater Comprehensive Plan budget; these are provided in Table 1 (below). There are actually 10 total modeling options listed in Table 1 because Area 7, Irvine Slough, has three different options that could be selected independently of one another. It is important to note that the provided modeling costs include the labor to size of a needed conveyance component but detailed drawings, technical documentation, quantities estimates, and other aspects of CIP design are not included. The budget originally set aside for modeling and CIP design was approximately $30,000 (some of that was used to develop this memorandum and other related activities).

The first five modeling areas are drainages in the lowland portion of the City that all flow from north to south and currently discharge into Irvine Slough; these were assigned the highest

modeling priority of all the areas in the City (all are 5 or higher). With the exception of Area 2, where the stormwater collection system is not functioning properly, it is believed that flooding in these areas is caused by the limited capacity of Irvine Slough. The proposed addition of a new stormwater collection system on the north side of SR-532 (referred to here as the Irvine Slough Separation Project) is intended to remedy that limitation and allow these drainages to discharge freely during storm events. We have assigned a high modeling priority to these areas because: 1) the results could be used immediately to size conveyance systems for CIP plan cost estimates, 2) the results would indicate if a new regional conveyance system north of SR-532 would be inadequate to eliminate flooding in these areas without local improvements, and 3) they are relatively low cost to model. Lovers Lane Road (Area 6) could easily be added to the modeling of 92nd Avenue (Area 5), but it was placed at a slightly lower priority of 7 because the problems are limited to roadway flooding and the County may look at these culverts as part of their Douglas Creek investigation.

The three modeling options for Area 7, Irvine Slough, are more costly than those in Areas 1 through 6 and as a result were assigned lower priorities. The most urgent being a 6 for determining the needed height for a new berm on the south side of SR-532 (Option 7A). Option 7B, sizing new pump station upgrades for Irvine Slough Pump Station, was assigned a low priority of 8 because Snohomish County may also evaluate this option as part of their Douglas Creek investigation. And we recommend that complete modeling of the new stormwater system on the north side of SR-532 (Option 7C) be deferred to the Irvine Slough Stormwater Separation Project which will have a more appropriate level of funds to properly model the system for preliminary design.

The uplands, Area 8, are not recommended for modeling at this time. Information about identified problems could be achieved in these areas but the benefits from modeling are limited and the costs are not warranted in our opinion.

Recommendation

NHC recommends that the City perform stormwater modeling of the 5 or 6 drainages that flow from north to south into Irvine Slough as part of the Stormwater Comprehensive Plan. This modeling could be performed for between $7,000 and $17,500, depending on how many of the areas are included. NHC could model these areas and still have resources available within the existing budget to provide some additional CIP solution design for these and other drainage issues included in the inventory. The problems relating to Irvine Slough in Area 7 are best addressed by the Irvine Slough Stormwater Separation Project.

If you have any questions about these options please contact us. We look forward to coordinating with the City to determine what modeling they want to pursue at this time.

Table 1: Modeling Area Costs and Prioritization				
Area Modeling Options	**Priority Ranking**	**Reasoning for Ranking**	**Approximate NHC Modeling Labor Costs**	**Additional Comments**
Area 1 - 101st Ave System	2	The need for a new collection system in this area has been noted by City staff and the model is a good tool to help with sizing for cost estimating.	$7000 alone or additional $2500 with Areas 1-5	
Area 2 - 102nd Avenue System	3	Results will determine if flooding problems are due to only to Irvine Slough or if local improvements are needed. Related to Area 1.	$7000 alone or additional $2500 with Areas 1-5	
Area 3 – 98th Avenue System	5	No known flooding problems but it would compliment modeling of Areas 1, 2, 4 and 5 as a systematic modeling approach to this portion of the City.	$7000 alone or additional $2500 with Areas 1-5	
Area 4 – 94th Avenue System	4	Results will determine if flooding problems are due to only to Irvine Slough or if local improvements are needed.	$7000 alone or additional $2500 with Areas 1-5	
Area 5 – 92nd Avenue System	1	There is a known limitation in this portion of the system that needs to be corrected. Results will determine if flooding problems are due to only to Irvine Slough or if local improvements are needed.	$9,500 alone or additional $5000 with Areas 1-5	More costly than Areas 1-4 due to flow splits and inflow complexities related to Lovers Lane Road.
Area 6 – Lovers Lane Road System	7	This area should only be modeled if Area 5 is. Modeling this area would help determine if correcting these culverts would correct flooding along Lovers Lane Road.	Additional $1500 with Area 5	

Area 7, Option A – Irvine Slough (SR-532 Berm)	6	This modeling is needed for accurate budgeting of a floodwall alternative.	$15,000	Would require additional model calibration to large flood data.
Area 7, Option B – Irvine Slough (Upgrades to Irvine Slough Pump Station)	8	We recommend it be evaluated as part of the City's delayed for the Irvine Slough Stormwater Separation Project.	> $15,000	Would require additional model calibration to large flood data.
Area 7, Option C –New Stormwater Conveyance System on North Side of SR-532	9	There are not resources available in this project to do a complete modeling effort of this portion of the proposed system and have any resources left for CIP design. We recommend it be delayed for the Irvine Slough Stormwater Separation Project.	NA	
Area 8 – Upland Portions of the City	10	The drainage problems in the upland portions of the City can generally be addressed without stormwater modeling.	NA	

Appendix A – Drainage Concerns by Modeling Area

The drainage concerns, potential solutions, and recommended stormwater modeling approach for each area are listed below.

Area 1 – 101st Ave System
Drainage Concern: During rains in early 2014, this system was observed by the City to flood. It is reported that the storm system inlets are not at the grade needed to capture runoff from the land surface.

Potential Solutions: The CIP solution for this area could require adjustments to inlets in the existing system or a new stormwater collection system network design to capture runoff and prevent ponding during storm events.

Stormwater Modeling Approach: The proposed system would be modeled to identify the proper pipe sizes as needed to complete CIP design cost estimates. Modeling would be performed with an assumption that Irvine Slough or an alternative downstream system would prevent backwater effects through the system.

Area 2 – 102nd Avenue System
Drainage Concern: There are multiple drainage complaints within Area 2 (#30, #42, and #62). These complaints report leaking pipes and ponding during small frequent rainstorms.

Potential Solutions: Leaking pipes in this area would need to be repaired or replaced and ponding in yards is an indication that pipes may need to be upsized if the capacity limitations are not solely due to backup from Irvine Slough.

Stormwater Modeling Approach: The existing pipes along 102nd Ave., 270th St., and Augusta would be modeled to evaluate if they have adequate capacity. If they do not, then new collector pipes would be sized for CIP designs needed cost estimating. Modeling would be performed with an assumption that Irvine Slough or an alternative downstream system would prevent backwater effects through the system.

Area 3 – 98th Avenue System
Drainage Concern: There no known problems with the 98th Avenue system. This would be added for consistency with the analysis of Area 2.

Potential Solutions: Pipes may need to be upsized if there are capacity limitations that are not solely due to backup from Irvine Slough.

Stormwater Modeling Approach: The existing pipe along 98th Avenue and Camano would be modeled to evaluate if it has adequate capacity. If it does not, then a new collector pipe would be sized for CIP designs needed cost estimating. Modeling would be performed with an assumption that Irvine Slough or an alternative downstream system would prevent backwater effects through the system.

Area 4 – 94th Avenue System
Drainage Concern: There are multiple drainage complaints within Area 4 (#4, #46, #51, and #52). These complaints report ponding during small frequent rainstorms.

Potential Solutions: Ponding in yards is an indication that pipes may need to be upsized if the capacity limitations are not solely due to backup from Irvine Slough.

Stormwater Modeling Approach: The existing pipes along 271st St. and 94th Ave. would be modeled to evaluate if they have adequate capacity. If they do not, then new collector pipes would be sized for CIP designs needed cost estimating. Modeling would be performed with an assumption that Irvine Slough or an alternative downstream system would prevent backwater effects through the system.

Area 5 – 92nd Avenue System

Drainage Concern: There are multiple drainage complaints within Area 5 (#27, #28, #34, #37, #43, #63, and others in Area 6). These complaints report ponding during small frequent rainstorms.

Potential Solutions: GIS data shows that the stormwater system along 92nd Avenue is constructed in a manner that does not drain efficiently. This and ponding in yards is an indication that pipes may need to be modified. It is likely that the capacity limitations are not solely due to backup from Irvine Slough.

Stormwater Modeling Approach: The existing pipes along 92nd Ave. and 271st Street would be modeled to evaluate if they have adequate capacity. If they do not, then new collector pipes would be sized for CIP designs needed cost estimating. Modeling would be performed with an assumption that Irvine Slough or an alternative downstream system would prevent backwater effects through the system.

Area 6 – Lovers Lane Road System

Drainage Concern: There are multiple drainage complaints within Area 6 (#5, #12, and #29). Water ponds up in roadway across from Heritage Park on the north side of the road.

Potential Solutions: GIS data shows that culverts on Lovers Lane Road are not properly graded. This ponding could also be caused by restrictions on 92nd Avenue.

Stormwater Modeling Approach: The Lovers Lane system would be modeled with the 92nd Avenue system in Area 5. The model would correct the culverts in the system to see if their modification would stop the flooding currently experienced in the system. Modeling would be performed with an assumption that Irvine Slough or an alternative downstream system would prevent backwater effects through the system.

Area 7A – Irvine Slough (SR-532 Berm)

Drainage Concern: There are multiple drainage complaints within Area 7 (#25 is related to SR-532). It is reported that during large floods the Old Stillaguamish River Channel can overtop SR-532 and flow north into the City of Stanwood causing damage from flooding.

Potential Solutions: The City has proposed to build a berm or floodwall along the south side of SR-532 to prevent flows from the Old Stillaguamish River channel from crossing SR-532.

Stormwater Modeling Approach: The existing HEC-RAS model of Irvine Slough and the Old Stillaguamish River Channel would be used to calculate the height of the needed floodwall

and/or berm. We would recommend some additional calibration of the model to ensure it accurately replicates water levels observed during historic flood events.

Area 7B – Irvine Slough (Upgrades to Irvine Slough Pump Station)
Drainage Concern: There are multiple drainage complaints within Area 7 (#22, #24, and #56), and others near the WWTP that are related. It is reported that during large floods the Irvine Slough Pump Station does not have adequate capacity.

Potential Solutions: The City has proposed adding a new pump or multiple pumps to the pump station.

Stormwater Modeling Approach: The existing HEC-RAS model of Irvine Slough and the Old Stillaguamish River Channel would be used to calculate reduction in water levels that could be achieved by increasing the pumping capacity of the pump station. We would recommend some additional calibration of the model ensure it accurately replicates observed in Irvine Slough.

Area 7C –New Stormwater Conveyance System on North Side of SR-532 (Complete System)
Drainage Concern: During large floods the Old Stillaguamish River channel can leave its right bank and enter Irvine Slough near the Park and Ride east of Larson's Dam at 92nd Avenue. Any of the flow that crosses Larson's Dam is then combined with the City's stormwater that is also discharged through multiple outfalls to Irvine Slough. The Irvine Slough Pump Station cannot keep up with all of this flow.

Potential Solutions: The City has proposed to build a new separate conveyance system on the north side of SR-532 that discharges immediately west of the Irvine Slough Pump Station or even further west beyond the Twin City Foods plant.

Stormwater Modeling Approach: The proposed conveyance system could be modeled and sized using HEC-RAS to provide a conceptual design that would be used to develop expected CIP design cost.

Area 8 – Upland Portions of City
Drainage Concern: There are multiple drainage concerns in this area. Most of these are isolated problems relating to storm drainage conveyance or stormwater pond designs.

Potential Solutions: There are a series of small works projects that could remedy most of these problems areas.

Stormwater Modeling Approach: The solutions for these areas do not warrant stormwater modeling.

Stanwood Stormwater Comprehensive Plan
Initial SWM Data Request

PACE Engineers, Inc. – Prepared by J. Christofferson and D. Stuart
December 12, 2013

Data Request (*as applicable and available*)

- GIS Data: Stormwater System (e.g. RH2 data used to produce figure "stasdsys.pdf", 1995 drainage inventory, and/or others), surveys of stream channels or ditches not included in the stormwater system inventory, Land Use, Land Cover, Zoning and ROW limits, Soils, Streets, City/County Boundaries, Topography (contours and/or LIDAR), Aerials (current and/or historic flood imagery), Parcel Data, ~~topography, LIDAR,~~ FEMA Mapping, other applicable data available.
- As-built drawings for stormwater system construction or modification (this may include WSDOT drawings for SR-532 drainage features).
- Copy of the City's Stormwater Program O&M Plan and O&M records
- Copy of the existing City's Stormwater CIP Plan - indicate if any of the projects have been completed
- 2013/2014 Stormwater Program Budget Information including expenses and FTE
- Stormwater Management Program Organization Chart
- Drainage Complaints (*Flooding, Erosion, Water Quality, and other additional drainage related complaints*) from Engineering/O&M Staff & the Public including addresses & descriptions of complaints over the last five years. Include photos and detailed descriptions.
- A record of known problematic maintenance locations within the stormwater system.
- List of known data-sources providing a record of flood levels in the Stillaguamish River, Irvine Slough, or elsewhere within the City after 1948. This may include anecdotal information (e.g. "SR-532 was under about 2' feet of water in January 2009", or "water was at the top of the bank in February 1996") or, preferably, a surveyed inventory noting a specific high-water mark elevation.
- Records of pumping activities at the Irvine Slough pump station (e.g. known discharges from pump station, or noted periods when pumping capacity during a flood was limited by a mechanical or other problem).
- Copies of related past studies (*in addition to those listed below*), including any H&H analysis previously conducted within the City's boundary
- *Any additional drainage/stormwater related data*

Data Collected

- Snohomish County Flood Insurance Study (2005) – includes City of Stanwood
- Forum to address flooding issues from Douglas Creek Article in the Herald Net (Feb. 2013)
- Sinkhole near Stanwood fixed just in time article in Herald Net (Aug. 2012)
- NFIP Biological Opinion for Puget Sound (September 2008)
- Trying to Keep Water at Bay in Seattle Times (March 2005)
- City of Stanwood Shoreline Master Program: Draft Shoreline Inventory and Analysis (April 2010)
- City of Stanwood Flood Hazard Management Plan: Phases I and II (July, June 1997)
- Dike and Drainage Improvement 7: Request for Funding to Repair Tide Gate – City Council Agenda (October 2012)

- Stanwood Municipal Code
- Stanwood Urban Growth Area Drainage Needs Reports, DNR No 7 by Snohomish County (December 2002)
- Stillaguamish River Watershed TMDL for Temperature : Studies and Reports by the Department of Ecology

MEMORANDUM

Date: March 12, 2014

To: Kevin Hushagen - Public Works Director
Lisa Noonchester – Public Works Administrative Assistant

From: Joe Simmler – PACE Engineers, Inc.
Jessica Christofferson – PACE Engineers, Inc.

Subject: Stormwater Management Program Questionnaire

Copies: File

Project Number:

Presented below is a Stormwater Program Questionnaire aimed at collecting information about the City's Stormwater Management Program. We have structured this inquiry to be consistent with the past and existing regulatory requirements of the Western Washington NPDES Phase II Municipal Stormwater Permit. The more information we have about your current SWM Program and what you are accomplishing with existing sources of funding, the more accurate we can be in developing future revenue needs and funding mechanisms. As we get further into our analysis of the Utility's existing Stormwater Program. Our objective is to make sure we are giving you credit for everything related to your Stormwater Management Program before we determine resources needed for the future.

Attachment #1 provides a more detailed questionnaire that we would typically provide an NPDES Phase II Permittee to be used as an information guide for the City of Stanwood.

SWMP Element #1 - Public Education and Outreach

1. Describe the activities utilized by the City for stormwater education and outreach.
   We do not have an established education and outreach program.

SWMP Element #2 - Public Involvement and Participation

2. Describe public meetings the City holds to solicit input specifically for stormwater related issues.
   We have held a few meetings mainly surrounding the ownership and maintenance of stormwater retention/detention ponds. We also held a meeting regarding the potential installation of a trail/path/berm on SR532 that mostly drew concerns about flood water level in the valley.

3. How does the City currently make the stormwater program documents available to the public, if anything, besides their website?
   The website is our main venue, however we send out informational flyers or mailings on specific issues.

SWMP Element #3 - Illicit Discharge Detection and Elimination

4. Describe the City's existing program for detecting and addressing non-stormwater discharges, spills, illicit connections and illegal dumping.
   It is basically on a reported basis or observation by staff.

5. Does the City report all records of action requests including spill responses and enforcement to the Department of Ecology?
   No. If it is a City generated spill, primarily dealing with our wastewater department, we do but most other issues come to us through our code enforcement.

6. Please describe any additional items we should know about the City's IDDE program.

SWMP Element #4 - Construction Site Runoff from New Redevelopment, and Construction Sites

7. Describe the City's permitting process, including plan review, inspection, and enforcement to ensure compliance with the stormwater runoff control ordinance. What department is responsible for this process?
   Permitting is done through community development. Plan review is done both in-house and through our contracted engineer RH2. Inspections are currently being contracted out through Lawrence's Construction Services. Community development is largely responsible for this process with any run-off or other issues being reported to code enforcement/CD. Public works does review plans and also receives complaints and concerns and makes field observations. Also, PW is very involved with the inspector.

8. Describe the City's inspection program for stormwater facilities in new developments, including BMP installation and maintenance during construction, recordkeeping procedures of inspection reports and enforcement actions.
   Inspections are currently being contracted out through Lawrence's Construction Services. Community development is largely responsible for this process with any run-off or other issues being reported to code enforcement/CD. Public works does review plans and also receives complaints and concerns and makes field observations. Also, PW is very involved with the inspector. Inspection reports are kept at both CD and PW with enforcement actions through code enforcement/CD.

9. Are the "Notice of Intent for Construction Activity" provided during the permit process and/or a central location?
   Not sure of this term or what is being asked? The contractor will show work on their approved plans and schedule work with the inspector. ROW permits will show extent of work and anticipated timing of work. ????

10. Describe the City's private facility maintenance program.
    Currently the City will weed and remove unwanted trees/brush/shrubs at detention/retention ponds. As you know ownership and maintenance of private facilities is being addressed.

11. Describe the training opportunities the City provides to construction operators and City staff on local erosion control BMPs.
    Jeff Foss recently renewed and maintained his CESCL certification. PW employees will need to attend training.

12. Please describe any additional items we should know about the City's Runoff Control program.

SWMP Element #5- Pollution Prevention and Operation and Maintenance for Municipal Operations

13. Does the City have a Municipal Operation and Maintenance (O&M) Plan? If so, when was the O&M Plan last updated?
No plan that I am aware of.

14. How often are inspections of stormwater facilities, catch basins and inlets performed? When was the last time they were inspected?
Structures such as flood/tide gates are inspected at least twice annually. Some other areas are inspected during heavy rains. All catch basins and lines we cleaned and inspected within the last 2 years by an outside contractor.

15. Does the City have any maintenance yards? If so, has a Stormwater Pollution Prevention Plan (SWPPP) been developed for these maintenance yard(s)?
Our public works/maintenance yard does not have a developed SWPPP.

16. What O&M equipment does the City currently own or rent for use? If rented, from what company or agency does the City rent the equipment and how is this paid for? Describe any anticipated significant O&M equipment purchases planned.
We own a sweeper with a vacuum system and a vactor truck. Like previously stated catch basins were cleaned through an outside contract with Cuz Concrete and that work was paid for out of the drainage fund.

17. Describe the O&M training the City provides for employees.
PW employees have been trained on operation of both the sweeper and vactor. Training for detention/retention pond maintenance and BMP's is lacking.

SWMP Element #6 – SWM Program Analysis, Organization, Implementation and Legal Authority

18. Describe any existing and/or proposed interlocal agreements and memorandums of understanding the City has with other agencies.
The City has an ILA with Snohomish County for maintenance work that has primarily dealt with pavement and markings. However, Trevor and I are looking into possible pond maintenance and ditch cleaning.

19. What elements of the stormwater program seem to be working well? What elements have been successfully integrated into the City's "normal" operating procedures?

20. Does the City feel they have adequate legal authority to enforce all aspects of their Stormwater Program, including private facility maintenance.
As all are aware we are working on ownership and maintenance issues relating to ponds.

SWMP Element #7 – Total Maximum Daily Load (TMDL) Allocation

No questions at this time.

SWMP Element #8 – Monitoring

21. Describe any stormwater monitoring that is currently being done by the City, if any.
In conjunction with Sno Co SWM some bacterial testing is being done in Irvine Slough.

SWMP Element #9 – Reporting

22. Describe the system the City uses to track and document stormwater related activities.
Public Works uses IWORQ's work order system.

SWMP Element #10 – Watershed Basin Planning, External Coordination and Services

23. Describe the City's Watershed and/or Basin Planning efforts.
24. Describe policies in place to reduce stormwater runoff, reduce impervious surfaces, and retain native vegetation.
25. Does the City participate in watershed planning (WRIA Planning)?

SWMP Element #12 – Capital Improvement Program

26. Describe the City's existing and long term Stormwater Capital Improvement Program.
27. How is Stormwater CIP Funded? It is not listed as a specific cost to the Stormwater Program in the 2014 Budget.

SWMP Element #14 – Underground Injection Control (UICs) Rule

28. How many infiltration facilities are publicly owned? How many privately owned?
29. Does the City have a risk-based strategy for permitting/approving future stormwater infiltration systems (based on soils, groundwater, drinking water wells, etc)? What are the design standards for locating and constructing infiltration facilities?

Please identify any other stormwater programs, issues, needs, or concerns that you feel should be considered in developing a SWM Program Gap Analysis for the City. Thank you for your assistance.

Attachment #1: Detailed NPDES Phase II Permittee Stormwater Program Questionnaire

SWMP Element #1 - Public Education and Outreach

1. Describe the activities utilized by the City for stormwater education and outreach. Does the City engage in any of the following activities?
   a. Provide water quality educational materials when requested?
      Refer requestor to DOE stormwater manual provide our design standards.
   b. Have a stormwater speakers' bureau?
      No
   c. Broadcast stormwater public service announcements in the media or distribute news releases?
      No
   d. Display stormwater exhibits at community locations?
      No

SWMP Element #2 - Public Involvement and Participation

2. Describe public meetings the City holds to solicit input specifically for stormwater related issues.
   Flyers and information is sent out notifying of time and location; open forum Q&A
3. What are the existing opportunities, if any, for the public to participate in the decision making processes involved in the development and implementation of the Stormwater Program.
   Meetings will be scheduled as part of the comp plan update
4. How does the City currently make the stormwater program documents available to the public, if anything, besides their website?
   Special interest mailings such as with the pond ownership issue
5. Please describe any additional items we should know about the City's public involvement and participation program.

SWMP Element #3 - Illicit Discharge Detection and Elimination

6. How does the City make the storm system map available to interested parties?
   Call or come in and request to view or pay for copies
7. Describe any City ordinances prohibiting illicit discharge on private property or discharge of waste to the public stormwater system.
   I couldn't find any
   a. How is the ordinance enforced? N/A
   b. Where in the municipal code is enforcement addressed?
8. Describe the City's existing program for detecting and addressing non-stormwater discharges, spills, illicit connections and illegal dumping.
   Reporting (either self of complaint) staff observes

9. Describe the City's inspection program for known outfalls or other alternate methods used for identifying unauthorized discharges to the public system.
10. What other entities does the City rely on for spill response assistance?
11. Does the City report all records of action requests including spill responses and enforcement to the Department of Ecology?
12. Describe the City's method of informing public employees, businesses and the general public of hazards associated with illegal discharges and improper waste disposal.
13. Describe the City's procedures for program evaluation and assessment, including tracking number and type of spills identified, inspections made, and feedback from public education efforts.
14. Please describe any additional items we should know about the City's IDDE program.

SWMP Element #4 - Construction Site Runoff from New Redevelopment, and Construction Sites

15. Describe the City's ordinance that addresses new development, redevelopment and/or construction site projects or projects that are part of a planned development.
    SMC Chapter 14 and street and utility standards
16. Describe the City's permitting process, including plan review, inspection, and enforcement to ensure compliance with the stormwater runoff control ordinance. What department is responsible for this process?
    Same as item 7 above
17. Does the City have an ordinance that requires identification of parties responsible for maintenance and inspection of permitted facilities, routine inspection and an enforcement mechanism?
18. Describe the City's inspection program for stormwater facilities in new developments, including BMP installation and maintenance during construction, recordkeeping procedures of inspection reports and enforcement actions.
    Same as item 8 above
19. Are the "Notice of Intent for Construction Activity" provided during the permit process and/or a central location?
20. Describe the training opportunities the City provides to construction operators and City staff on local erosion control BMPs.
21. When did the City provide its most recent training session, and which staff attended?
22. Does the City provide or sponsor training for staff in permitting, plan review, construction site inspection, and enforcement concerning the Stormwater Runoff Control program?
23. Describe the City's review process for site plans prior to construction to ensure compliance with…
    a. the stormwater ordinance
    b. the post-construction runoff ordinance and design manual
24. What percentage of all construction sites that are regulated by the erosion control ordinance are inspected by the City?
25. How does the City pass public complaints related to construction site runoff to field inspectors?
26. Please describe any additional items we should know about the City's Runoff Control program.

SWMP Element #5- Pollution Prevention and Operation and Maintenance for Municipal Operations

27. Does the City have a Municipal Operation and Maintenance (O&M) Plan? If so, when was the O&M Plan last updated?
28. Does the City conduct and document spot checks of known problem areas following what storm? If so, describe the spot checking procedures for stormwater treatment and flow control facilities after major storm events (>10-year recurrence interval).
29. How often are inspections of catch basins and inlets performed? When was the last time they were inspected?

30. Do the O&M practices for road maintenance cover any or all of the following activities relating to streets, parking lots, and roadways (if so, please describe the extent of the activities including frequency):
    a. Pipe and culvert cleaning?
    b. Ditch and roadside areas, including vegetation management?
    c. Street sweeping and cleaning?
    d. Street repair and resurfacing, including pavement grinding?
    e. Pavement striping maintenance?
    f. Snow and ice control?
    g. Utility installation?
    h. Dust control?
31. What standard manual does the City use to provide guidelines for roadway O&M activities?
32. Do the O&M practices for non-road maintenance cover any or all of the following activities relating to parking, open space, right-of-way, and maintenance yards (if so please describe the extent of the activities including frequency):
    a. Application of fertilizer, pesticides, and herbicides, including the development of nutrient management and integrated pest management plans?
    b. Sediment and Erosion control?
    c. Landscape maintenance and vegetation disposal?
    d. Street repair and resurfacing, including pavement grinding?
    e. Trash management?
    f. Building exterior cleaning and maintenance?
33. Describe how O&M practices and frequency are tracked and recorded and the general O&M recordkeeping procedures.
34. Describe the City's ongoing training activities for maintenance and operations, including training on permit requirements, O&M Standards, inspection procedures and selection of appropriate BMPs beyond the ESA Regional Road Maintenance Program.
35. Describe how O&M practices are implemented. Are practices and frequency in accordance with the O&M Plan?
36. Does the City have any maintenance yards? If so, has a Stormwater Pollution Prevention Plan (SWPPP) been developed for these maintenance yard(s)?
37. Describe the City's O&M waste disposal procedure for street sweepings and vactor waste.
38. What O&M equipment does the City currently own or rent for use? If rented, from what company or agency does the City rent the equipment and how is this paid for?
39. Describe any anticipated significant O&M equipment purchases planned.
40. Describe the O&M training the City provides for employees? ESA Regional Road Maintenance Program training?
41. When did the City provide its most recent training session, and which staff attended?

<u>SWMP Element #6 – SWM Program Analysis, Organization, Implementation and Legal Authority</u>

42. Describe any existing and/or proposed interlocal agreements and memorandums of understanding the City has with other agencies.
43. What elements of the stormwater program seem to be working well? What elements have been successfully integrated into the City's "normal" operating procedures?
44. Describe external coordination of services (i.e. out sourcing)
45. Does the City participate in interagency surface water quality strategy coordination? If so, to what extent?
46. Does the City feel they have adequate legal authority to enforce the IDDE ordinance?
47. Does the City feel they have adequate legal authority to enforce development standards, perform inspections during and after construction, and enforce maintenance requirements during construction?
48. Does the City feel they have adequate legal authority to enforce private facility maintenance standards?

49. Does the City feel they have adequate legal regarding right-of-entry to private properties to inspect and maintain storm systems on private property?

SWMP Element #7 – Total Maximum Daily Load (TMDL) Allocation

No questions at this time.

SWMP Element #8 – Monitoring

50. Describe any stormwater monitoring that is currently being done by the City, if any.
51. Has the City identified potential sites for a future, long term monitoring plan?
52. Describe the annual reporting procedures for monitoring of City's SWM Program, if any.
53. Describe the City's efforts to monitor the quality of outfall discharges to impaired waters.
54. Describe the City's participation in any local or regional programs to monitor baseline conditions and evaluate surface water program effectiveness.

SWMP Element #9 – Reporting

55. Are there pollution prevention and management plans for all municipal facilities?
56. Are industrial (stormwater) permit applications submitted as needed?
57. Describe the system the City uses to track, document, and report stormwater related activities.

SWMP Element #10 – Watershed Basin Planning, External Coordination and Services

58. Describe the City's Watershed and/or Basin Planning efforts.
59. Does the City assess stormwater impacts to habitat when making land use decisions?
60. Describe policies in place to reduce stormwater runoff, reduce impervious surfaces, and retain native vegetation.
61. Does the City participate in interagency surface water quality strategy coordination?
62. Has the City adopted a Salmon Recovery Plan?
63. Does the City participate in watershed planning (WRIA Planning)?

SWMP Element #11 – Funding

No questions at this time.

SWMP Element #13 – Capital Improvement Program

64. Describe the City's existing and long term Stormwater Capital Improvement Program.
65. How is Stormwater CIP Funded? It is not listed as a specific cost to the Stormwater Program in the 2014 Budget.

Fee based (rates, connections, investment etc.)

SWMP Element #14 – Underground Injection Control (UICs) Rule

66. How many infiltration facilities are publicly owned? How many privately owned?

Currently no injection systems I am aware of

67. Is the area draining to drywells documented by land use?
68. Does the City have a risk-based strategy for permitting/approving future stormwater infiltration systems (based on soils, groundwater, drinking water wells, etc)? What are the design standards for locating and constructing infiltration facilities?

69. Does the City have an ordinance relating to UICs? What is the ordinance number and where is it located? When was it last updated?
70. How does the City enforce construction standards for infiltration facilities?
71. What annual maintenance do public systems receive after construction is complete?
72. What is the City's pollution prevention plan for public infiltration systems?
73. Has the City identified existing publicly owned infiltration systems in areas of high risk for groundwater degradation?
74. Does the City have a written plan for the management and/or replacement strategy that will reduce pollutant loading to groundwater in high-risk areas? (If so, please provide a copy of the management plan.)
75. If applicable, which of the following elements are included in the replacement strategy: monitoring, effectiveness assessment, report preparation, enhanced O&M, source control, spill control/response, opportunistic retrofits?

Please identify any other stormwater programs, issues, needs, or concerns that you feel should be considered in developing a SWM Program Gap Analysis for the City. Thank you for your assistance.

City of Stanwood Stormwater Comprehensive Plan Survey

What is the Stormwater Comprehensive Plan?
The Stormwater Comprehensive Plan identifies stormwater runoff, drainage basins, flow paths, and system capacities throughout the city's drainage system, and prioritizes a list of needed improvement projects to address current and future needs.

When was the last Stormwater Comprehensive Plan written?
The last stormwater analysis (Drainage Master Plan) was done in 1998 more than 20 years ago. The information is outdated. New information is needed to plan the city's future

How will I be Impacted?
Once residents, business owners and the city council have prioritized the list of needed improvements, the next step is to identify how to fund projects. The city council will evaluate whether current stormwater rates are sufficient to fund future maintenance needs and projects.

Irvine Slough Pump Gates

Purpose of the Survey

The City of Stanwood is developing a Stormwater Comprehensive Plan that includes the development of an updated Stormwater Capital Improvement Program (CIP) Project list. As part of this process, the City Public Works staff would like your input on drainage and stormwater concerns you have seen in the community. All the concerns collected from this survey will be considered for inclusion in the CIP project list.

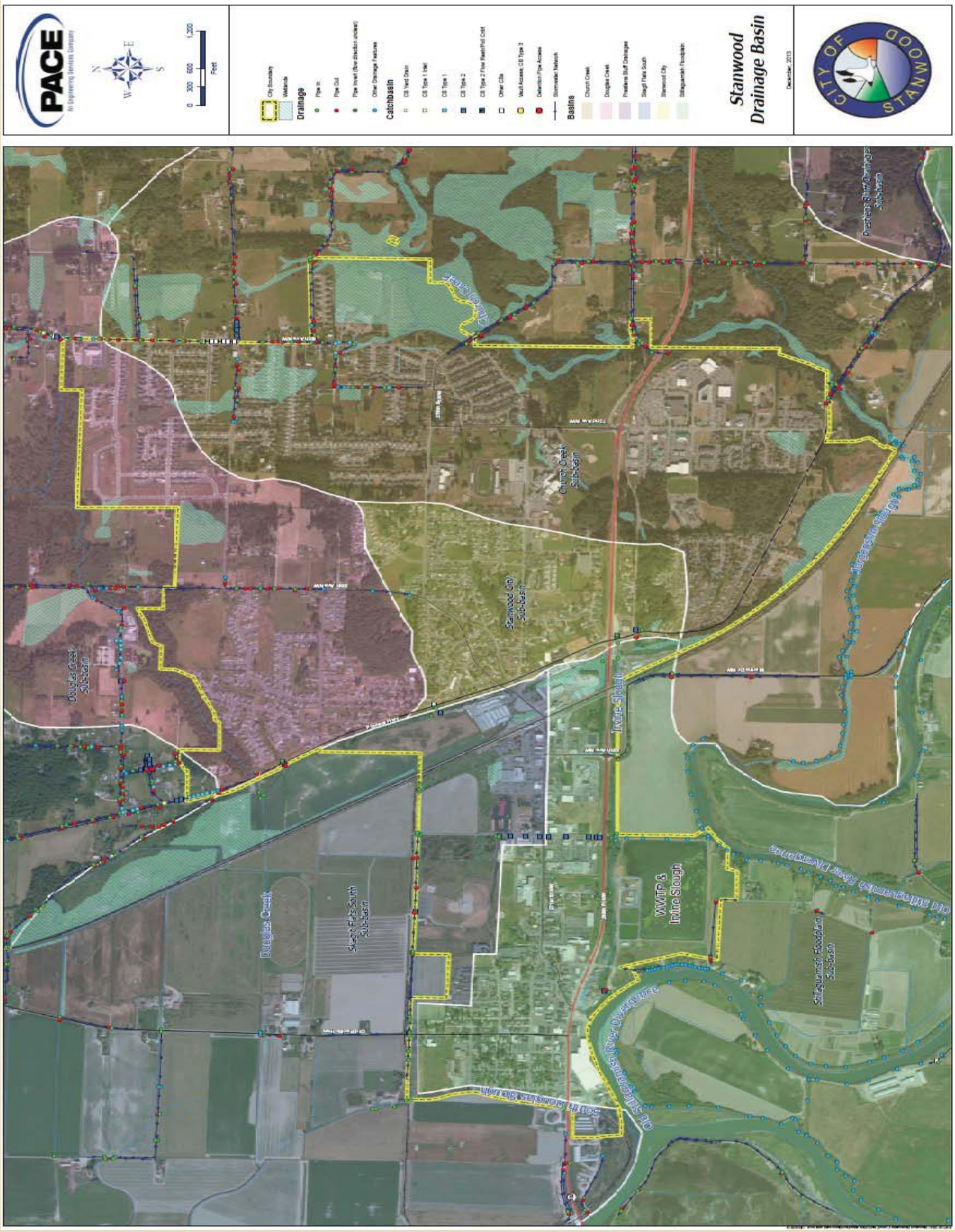
Please fill out the survey located on the reverse side of this flyer or complete the questionnaire on-line at https://www.surveymonkey.com/s/F2DYMGB and help us identify drainage and stormwater concerns. If you have questions about this survey or project please contact Kevin Hushagen, Interim Public Works Director at 360-629-9782 or **kevin@ci.stanwood.wa.us**

What is Stormwater

Storm water (sometimes called Surface Water) is the result of rain and melted snow and ice that runs off surfaces such as rooftops, paved streets, highways and parking lots and other impervious surfaces. As the water runs off these surfaces, it picks up pollutants such as oil, fertilizers, pesticides, trash and animal waste. The water may flow directly into a local stream, wetland, lake or other waterway. Or the water may flow into the storm drain and continue through pipes until it is released untreated into a local waterway. Stanwood's storm drain system feeds into Port Susan and Skagit Bay.

Untreated storm water is generally unsafe because it contains toxic metals, organic compounds, bacteria and viruses. Residential storm water runoff may include pet waste, vehicle fluids such as oil, gas and antifreeze and other hazardous solvents. Industrial storm water runoff may result from chemical spills and washing commercial vehicles and allowing the dirty water to go directly into the storm drain system. Waste from materials and equipment used in construction can wash into the City's storm drain system.

It is a violation of City code to discharge any contaminates into the City's storm drain system or surface/ground water.


PACE
An Engineering Services Company
N
W
E
S
0 300 600 1,200
Feet
City Boundary
Wetlands
Drainage
Pipe In
Pipe Out
Pipe Invert (flow direction arrows)
Other Drainage Features
Catchbasin
CB Yard Drain
CB Type 1 Inlet
CB Type 1
CB Type 2
CB Type 2 Flow Restrictor Cover
Other CBs
Vault Access; CB Type 3
Detention Pipe Access
Stormwater Network
Basins
Church Creek
Douglas Creek
Predaine Bluff Drainages
Skagit Flats South
Stanwood City
Stillaguamish Floodplain
Stanwood
Drainage Basin
December, 2013
CITY OF STANWOOD
Douglas Creek Sub-basin
Skagit Flats South Sub-basin
Douglas Creek
Stanwood City Sub-basin
Church Creek Sub-basin
Glendale Creek
Predaine Bluff Drainages Sub-basin
Irvine Slough
WWTP & Irvine Slough
Stillaguamish Floodplain Sub-basin
Old Stillaguamish River Drainages
South Fork Stillaguamish River
Old Stillaguamish River Drainages

Cut along dashed line and fax, email or mail survey to the City

Please provide assistance by completing the survey below.
Please respond by January 20, 2014

Take this survey on-line at https://www.surveymonkey.com/s/F2DYMGB

Name*: _____

Address*: _____City:_____Zip:_____

Phone Number*: _____ Email*: _____

**This information will be used to follow-up with you if we need additional information*

Is it ok to contact you? Yes _____ No _____

Address/Location of the Drainage/Stormwater Concern: (*If you have a concern at multiple locations, please fill out a separate survey for each location)*
Brief Description of Concern (ex. water flowing onto private property from city street, standing water on roadway, non-functioning storm drainage, etc. Please include copies of photos or a sketch of the drainage/stormwater concern if you have them.):
Type of Drainage/Stormwater Concern: Flooding? Standing Water? Water Quality? Habitat? Stream Erosion? Hillside Erosion?
How often Does this Drainage/Stormwater Concern Occur? Every time it rains? Ongoing? Every Month? Annually? Every Five Years? Other?
How long does the Drainage/Stormwater Concern Last? When did it last occur? How depth was the water? 1-6 hours? 24 hours? Days? 1 inches – 6 inches? 2 ft? 3 ft? _____
Impact (ex. Water over road or sidewalk impacting vehicles or pedestrians, flooding or yards or homes, etc..)
Could this be a safety concern? Yes ____ No ____ If yes, please explain:
Do you have any other drainage/stormwater comments, or concerns?

You can take this survey on-line at https://www.surveymonkey.com/s/F2DYMGB
or return this survey to the City of Stanwood

FAX: 360-629-3009 | SCAN/EMAIL: lisa.noonchester@ci.stanwood.wa.us
HAND DELIVER OR MAIL: City of Stanwood, 10220 270th Street NW, Stanwood, WA 98292

City of Stanwood
10220 270th Street NW
Stanwood, WA 98292

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STANWOOD, WA 98292
PERMIT NO. 44

POSTAL PATRON

STANWOOD, WA 98292

Cedarhome Vista Retention Pond

CITY OF STANWOOD
Stormwater Comprehensive Plan Update

Your Help is Need!

The City of Stanwood is developing a Stormwater Comprehensive Plan and we need your input on drainage and stormwater concerns.

Please take a few minutes and take the survey on-line at **https://www.surveymonkey.com/s/F2DYMGB** or you can fill out the enclosed survey, cut off the indicated portion, and return to the city **by January 20, 2014.** via FAX: 360-629-3009, SCAN/EMAIL: lisa.noonchester@ci.stanwood.wa.us HAND DELIVER OR MAIL:
City of Stanwood, 10220 270th Street NW, Stanwood, WA 98292

For More Information Contact
Kevin Hushagen
Interim Public Works Director
360-629-9782
E-mail: Kevin@ci.stanwood.wa.us

Stormwater Comprehensive Plan Update Survey

What is the address/location of the drainage/stormwater concern?

Answer Options	Response Count
	21
answered question	21
skipped question	0

Number	Response Date	Response Text	Categories
1	Jan 22, 2014 10:04 PM	downtown behind Viking Village and alongside the t	
2	Jan 22, 2014 7:08 PM	27616 84th Drive NW	
3	Jan 22, 2014 5:49 PM	27813 80th Ave NW	
4	Jan 21, 2014 4:32 AM	84TH NW just south of 271st	
5	Jan 18, 2014 8:25 AM	7720 stauffer rd	
6	Jan 16, 2014 11:06 PM	7710 Stauffer Rd	
7	Jan 16, 2014 6:38 PM	South end of 86th Dr. just before entering Pioneer H	
8	Jan 16, 2014 5:40 PM	Summerset 278th Place NW	
9	Jan 15, 2014 6:19 AM	27030 102nd Dr NW Stanwood WA 98292	
10	Jan 14, 2014 10:32 PM	See attached photo - 271st St NW to the North, SR9	
11	Jan 14, 2014 7:25 PM	Church Creek Estates Development	
12	Jan 14, 2014 4:05 AM	27327 76th Dr NW	
13	Jan 14, 2014 3:47 AM	9332 271st Street NW	
14	Jan 14, 2014 3:31 AM	72nd Ave	
15	Jan 14, 2014 3:15 AM	At the corner of 81st Dr & 272nd	
16	Jan 13, 2014 11:06 PM	264th street and 95th Ave, just south of the sewer la	
17	Jan 10, 2014 11:06 PM	Marine Drive and 271st at the site of recently demol	
18	Jan 9, 2014 4:41 AM	27126 96th Ave NW	
19	Jan 9, 2014 12:41 AM	Enlarged, improved or upgraded infrastructure to se	
20	Jan 7, 2014 7:49 PM	26920 94TH Drive NW, Stanwood WA. 98292	
21	Jan 7, 2014 5:36 PM	27901 86th Drive NW and the general neighborhoo	

entered 1-22-14

Please provide assistance by completing the survey below.
Please respond by January 20, 2014

Take this survey on-line at https://www.surveymonkey.com/s/F2DYMGB

Name*: Marilyn Stone

Address*: 27016 84th Dr. NW City: Stanwood Zip: 98292-7966

Phone Number*: 360 629 4038 Email*: MARHST@WAVECABLE.COM

This information will be used to follow-up with you if we need additional information

Is it ok to contact you? Yes ✓ No ____

Address/Location of the Drainage/Stormwater Concern: (*If you have a concern at multiple locations, please fill out a separate survey for each location*)
My address (Stanwood City Sub-Basin

Brief Description of Concern (ex. water flowing onto private property from city street, standing water on roadway, non-functioning storm drainage, etc. Please include copies of photos or a sketch of the drainage/stormwater concern if you have them.): water flowing from under city street and under drive way to under garage floor and underground on N. side of house to back yard on North

Type of Drainage/Stormwater Concern: Flooding? Standing Water? Water Quality? Habitat? Stream Erosion? Hillside Erosion?
flooding & some standing water in back.

How often Does this Drainage/Stormwater Concern Occur? Every time it rains? Ongoing? Every Month? Annually? Every Five Years? Other?
Every Time we have heavy rain for 2 days or for a week. average rain

How long does the Drainage/Stormwater Concern Last? When did it last occur? How depth was the water? 1-6 hours? 24 hours? Days? 1 inches – 6 inches? 2 ft? 3 ft? Days / 2 to 4" / as of 1/19/14
Still have some standing water in backyard.

Impact (ex. Water over road or sidewalk impacting vehicles or pedestrians, flooding or yards or homes, etc..)
My interior of house accumulated flood water [illegible] years ago
2 years ago All Seasons waterproofing installed system all around house.

Could this be a safety concern? Yes ✓ No ____ If yes, please explain: under foundation etc. water goes under garage floor to back yard, has cover around a metal pole to keep car from hitting gas furnace.

Do you have any other drainage/stormwater comments, or concerns?
Around is so waterlogged in Spring in backyard on the North side area no one can mow lawn or mud is 5 to 4" deep. By end of June it has dried out some.

You can take this survey on-line at https://www.surveymonkey.com/s/F2DYMGB
or return this survey to the City of Stanwood

FAX: 360-629-3009 | SCAN/EMAIL: lisa.noonchester@ci.stanwood.wa.us
HAND DELIVER OR MAIL: City of Stanwood, 10220 270th Street NW, Stanwood, WA 98292

Cut along dashed line and fax, email or mail survey to the City

entered 1-22-14

Please provide assistance by completing the survey below.
Please respond by January 20, 2014

Take this survey on-line at https://www.surveymonkey.com/s/F2DYMGB

Name*: ROD SUNDBERG

Address*: 27813 80th AVE NW City: STANWOOD Zip: 98292

Phone Number*: 360-629-3632 Email*:

This information will be used to follow-up with you if we need additional information

Is it ok to contact you? Yes X No ____

Address/Location of the Drainage/Stormwater Concern: (*If you have a concern at multiple locations, please fill out a separate survey for each location)*

27813 80th AVE. NW STANWOOD WA 98292

Brief Description of Concern (ex. water flowing onto private property from city street, standing water on roadway, non-functioning storm drainage, etc. Please include copies of photos or a sketch of the drainage/stormwater concern if you have them.):

Non-functioning storm drainage.

Type of Drainage/Stormwater Concern: Flooding? Standing Water? Water Quality? Habitat? Stream Erosion? Hillside Erosion?

standing water

How often Does this Drainage/Stormwater Concern Occur? Every time it rains? Ongoing? Every Month? Annually? Every Five Years? Other?

Other

How long does the Drainage/Stormwater Concern Last? When did it last occur? How depth was the water? 1-6 hours? 24 hours? Days? 1 inches – 6 inches? 2 ft? 3 ft? ____

last year - depth about 1"-2"

Impact (ex. Water over road or sidewalk impacting vehicles or pedestrians, flooding or yards or homes, etc..)

yards & home

Could this be a safety concern? Yes ____ No ____ If yes, please explain:

?

Do you have any other drainage/stormwater comments, or concerns?

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or return this survey to the City of Stanwood

FAX: 360-629-3009 | SCAN/EMAIL: lisa.noonchester@ci.stanwood.wa.us
HAND DELIVER OR MAIL: City of Stanwood, 10220 270th Street NW, Stanwood, WA 98292

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entered
bm 1-16

RECEIVED
JAN 15 2014
CITY OF STANWOOD

Please provide assistance by completing the survey below.
Please respond by January 20, 2014

Take this survey on-line at https://www.surveymonkey.com/s/F2DYMGB

Name*: Charles R. (Bob) Hitz

Address*: 27929 - 85TH Dr. NW City: Stanwood Zip: 98292

Phone Number*: 360-631-9539 Email*: bobhitz@wavecable.com

**This information will be used to follow-up with you if we need additional information*

Is it ok to contact you? Yes ✓ No ____

Address/Location of the Drainage/Stormwater Concern: (*If you have a concern at multiple locations, please fill out a separate survey for each location*) South end of 86th Drive just before intering Pioneer Hwy

Brief Description of Concern (ex. water flowing onto private property from city street, standing water on roadway, non-functioning storm drainage, etc. Please include copies of photos or a sketch of the drainage/stormwater concern if you have them.): Water flowing across 86th Drive and down to Pioneer Hwy!

Type of Drainage/Stormwater Concern: Flooding? Standing Water? Water Quality? Habitat? Stream Erosion? Hillside Erosion?

How often Does this Drainage/Stormwater Concern Occur? Every time it rains? Ongoing? Every Month? Annually? Every Five Years? Other?

How long does the Drainage/Stormwater Concern Last? When did it last occur? How depth was the water? 1-6 hours? 24 hours? Days? 1 inches – 6 inches? 2 ft? 3 ft?
It occures during and after ~~the~~ a modrit to light rain

Impact (ex. Water over road or sidewalk impacting vehicles or pedestrians, flooding or yards or homes, etc..)
Impact when it freezes.

Could this be a safety concern? Yes ✓ No ____ If yes, please explain:
when it freezes - it would be difficult to stop when you are going down to Pineer Hwy.

Do you have any other drainage/stormwater comments, or concerns?

You can take this survey on-line at https://www.surveymonkey.com/s/F2DYMGB
or return this survey to the City of Stanwood

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HAND DELIVER OR MAIL: City of Stanwood, 10220 270th Street NW, Stanwood, WA 98292

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Did not enter to save IP Address
no concern

Please provide assistance by completing the survey below.
Please respond by January 20, 2014

Take this survey on-line at https://www.surveymonkey.com/s/F2DYMGB

Name*: RAMON Cortez

Address*: 27307 83RD AVE NW City: Stanwood, WA Zip: 98292

Phone Number*: 360-224-1740 Email*: XPSRAY@G-MAIL.COM

**This information will be used to follow-up with you if we need additional information*

Is it ok to contact you? Yes ✓ No ____

Address/Location of the Drainage/Stormwater Concern: (*If you have a concern at multiple locations, please fill out a separate survey for each location*) NO CONCERN Stormwater
Brief Description of Concern (ex. water flowing onto private property from city street, standing water on roadway, non-functioning storm drainage, etc. Please include copies of photos or a sketch of the drainage/stormwater concern if you have them.): I HAVE NO CONCERN DRAINAGE
Type of Drainage/Stormwater Concern: Flooding? Standing Water? Water Quality? Habitat? Stream Erosion? Hillside Erosion? NO STANDING WATER
How often Does this Drainage/Stormwater Concern Occur? Every time it rains? Ongoing? Every Month? Annually? Every Five Years? Other? N/A
How long does the Drainage/Stormwater Concern Last? When did it last occur? How depth was the water? 1-6 hours? 24 hours? Days? 1 inches – 6 inches? 2 ft? 3 ft? N/A
Impact (ex. Water over road or sidewalk impacting vehicles or pedestrians, flooding or yards or homes, etc..) MY HOME IS LOCATED IN A DOWN HILL. HAVE NO CONCERN
Could this be a safety concern? Yes ____ No ✓ If yes, please explain:
Do you have any other drainage/stormwater comments, or concerns? NO

You can take this survey on-line at https://www.surveymonkey.com/s/F2DYMGB
or return this survey to the City of Stanwood

FAX: 360-629-3009 | SCAN/EMAIL: lisa.noonchester@ci.stanwood.wa.us
HAND DELIVER OR MAIL: City of Stanwood, 10220 270th Street NW, Stanwood, WA 98292

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1-14-13

Please provide assistance by completing the survey below.
Please respond by January 20, 2014

Take this survey on-line at https://www.surveymonkey.com/s/F2DYMGB

Name*: _____

Address*: _____ City: _____ Zip: _____

Phone Number*: _____ Email*: _____

**This information will be used to follow-up with you if we need additional information*

Is it ok to contact you? Yes _____ No _____

Address/Location of the Drainage/Stormwater Concern: (*If you have a concern at multiple locations, please fill out a separate survey for each location*) Church Creek Estates

Brief Description of Concern (ex. water flowing onto private property from city street, standing water on roadway, non-functioning storm drainage, etc. Please include copies of photos or a sketch of the drainage/stormwater concern if you have them.): When I moved here in 1998, The Sound of frogs at Night was exceptional. They are a great indicator of environmental health. Now I hear of

Type of Drainage/Stormwater Concern: Flooding? Standing Water? Water Quality? Habitat? Stream Erosion? Hillside Erosion? haven't noticed

How often Does this Drainage/Stormwater Concern Occur? Every time it rains? Ongoing? Every Month? Annually? Every Five Years? Other? I had to install sump pump in house. The area is naturally wet. They run (starts up) after every heavy rain

How long does the Drainage/Stormwater Concern Last? When did it last occur? How depth was the water? 1-6 hours? 24 hours? Days? 1 inches – 6 inches? 2 ft? 3 ft? _____

Impact (ex. Water over road or sidewalk impacting vehicles or pedestrians, flooding or yards or homes, etc..) I have never seen any impact at all

Could this be a safety concern? Yes ___ No ___ If yes, please explain: Haven't seen anything at Safety park

Do you have any other drainage/stormwater comments, or concerns? Use environmental friendly. When you spray for weeds (blackberry etc..) you killed alot more environment than intended

You can take this survey on-line at https://www.surveymonkey.com/s/F2DYMGB
or return this survey to the City of Stanwood

FAX: 360-629-3009 | SCAN/EMAIL: lisa.nconchester@ci.stanwood.wa.us
HAND DELIVER OR MAIL: City of Stanwood, 10220 270th Street NW, Stanwood, WA 98292

Cut along dashed line and fax, email or mail survey to the City

1-13-14 JK

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JAN 13 2014
CITY OF STANWOOD

Please provide assistance by completing the survey below.
Please respond by January 20, 2014

Take this survey on-line at https://www.surveymonkey.com/s/F2DYMGB

Name*: Hendrick L. Husby

Address*: 26929-81st Dr NW City: Stanwood, WA Zip: 98292

Phone Number*: 360-939-0300 Email*: N/A

*This information will be used to follow-up with you if we need additional information

Is it ok to contact you? Yes ✓ No ____

Address/Location of the Drainage/Stormwater Concern: (*If you have a concern at multiple locations, please fill out a separate survey for each location*) At the corner of 81st Dr & 272nd

Brief Description of Concern (ex. water flowing onto private property from city street, standing water on roadway, non-functioning storm drainage, etc. Please include copies of photos or a sketch of the drainage/stormwater concern if you have them.): Water accumulates & forms a large puddle because of a lack of proper drainage.

Type of Drainage/Stormwater Concern: Flooding? Standing Water? Water Quality? Habitat? Stream Erosion? Hillside Erosion?
Standing Water

How often Does this Drainage/Stormwater Concern Occur? Every time it rains? Ongoing? Every Month? Annually? Every Five Years? Other?
Every time it rains, Ongoing Puddle

How long does the Drainage/Stormwater Concern Last? When did it last occur? How depth was the water? 1-6 hours? 24 hours? Days? 1 inches – 6 inches? 2 ft? 3 ft? 1/9/14 Ongoing
6 inches deep, 24 hours ongoing.

Impact (ex. Water over road or sidewalk impacting vehicles or pedestrians, flooding or yards or homes, etc..)
Large puddle on the corner of 81st Dr. NW & 272nd

Could this be a safety concern? Yes ____ No ✓ If yes, please explain:

Do you have any other drainage/stormwater comments, or concerns? No

You can take this survey on-line at https://www.surveymonkey.com/s/F2DYMGB
or return this survey to the City of Stanwood

FAX: 360-629-3009 | SCAN/EMAIL: lisa.noonchester@ci.stanwood.wa.us
HAND DELIVER OR MAIL: City of Stanwood, 10220 270th Street NW, Stanwood, WA 98292

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Done 1-13-14

Please provide assistance by completing the survey below.
Please respond by January 20, 2014

Take this survey on-line at https://www.surveymonkey.com/s/F2DYMGB

Name*: WALLACE R. MIDDLETON

Address*: 27312 72 AVE NW City: STANWOOD Zip: 98292-7409

Phone Number*: 629 2946 Email*: —

**This information will be used to follow-up with you if we need additional information*

Is it ok to contact you? Yes ✓ No ____

Address/Location of the Drainage/Stormwater Concern: (*If you have a concern at multiple locations, please fill out a separate survey for each location*)
72 AVE NW

Brief Description of Concern (ex. water flowing onto private property from city street, standing water on roadway, non-functioning storm drainage, etc. Please include copies of photos or a sketch of the drainage/stormwater concern if you have them.):
WATER FLOWS INTO FIELD FROM ROADSIDE DITCH

Type of Drainage/Stormwater Concern: Flooding? Standing Water? Water Quality? Habitat? Stream Erosion? Hillside Erosion?

How often Does this Drainage/Stormwater Concern Occur? Every time it rains? Ongoing? Every Month? Annually? Every Five Years? Other?
WHEN SOIL IS SATURATED AND HEAVY RAINS FALL

How long does the Drainage/Stormwater Concern Last? When did it last occur? How depth was the water? 1-6 hours? 24 hours? Days? 1 inches - 6 inches? 2 ft? 3 ft? IT OCCURED THIS WEEK

Impact (ex. Water over road or sidewalk impacting vehicles or pedestrians, flooding or yards or homes, etc..)

Could this be a safety concern? Yes ____ No ✓ If yes, please explain:

Do you have any other drainage/stormwater comments, or concerns? DRAIN WATER FROM HOUSING HOPE AT 72 & 276th SHOULD HAVE BEEN PIPED OVER TO THE STORM DRAIN ON THE EAST SIDE OF 72 AVE INSTEAD OF INTO THE DITCH ON THE WEST SIDE

You can take this survey on-line at https://www.surveymonkey.com/s/F2DYMGB
or return this survey to the City of Stanwood

FAX: 360-629-3009 | SCAN/EMAIL: lisa.noonchester@ci.stanwood.wa.us
HAND DELIVER OR MAIL: City of Stanwood, 10220 270th Street NW, Stanwood, WA 98292

Cut along dashed line and fax, email or mail survey to the City

1-13-14 JR

Please provide assistance by completing the survey below.
Please respond by January 20, 2014

Take this survey on-line at https://www.surveymonkey.com/s/F2DYMGB

Name*: TERRY GREER (PO BOX 879)

Address*: 9332 271 ST NW City: STANWOOD Zip: 98292

Phone Number*: 360.629.9420 Email*: tgreer@tgi.net

This information will be used to follow-up with you if we need additional information

Is it ok to contact you? Yes X No ____

Address/Location of the Drainage/Stormwater Concern: (*If you have a concern at multiple locations, please fill out a separate survey for each location*)

9332 271st ST NW, 9228 271st. ST. NW

Brief Description of Concern (ex. water flowing onto private property from city street, standing water on roadway, non-functioning storm drainage, etc. Please include copies of photos or a sketch of the drainage/stormwater concern if you have them.): FLOODING ONTO MY PROPERTY FROM STANWOOD TOWNE CENTER NON-FUNCTIONING STORM DRAIN - 9328 271st ST.

Type of Drainage/Stormwater Concern: Flooding? Standing Water? Water Quality? Habitat? Stream Erosion? Hillside Erosion?

FLOODING, STANDING WATER, HEALTH

How often Does this Drainage/Stormwater Concern Occur? Every time it rains? Ongoing? Every Month? Annually? Every Five Years? Other?

ONGOING - DEC. TO APRIL

How long does the Drainage/Stormwater Concern Last? When did it last occur? How depth was the water? 1-6 hours? 24 hours? Days? 1 inches – 6 inches? 2 ft? 3 ft? I INSTALLED A SUMP PUMP ON MY PROPERTY; PRIOR TO THAT I HAD 2 FEET of STANDING WATER.

Impact (ex. Water over road or sidewalk impacting vehicles or pedestrians, flooding or yards or homes, etc..) FLOODING BUILDING FOUNDATIONS, FLOODING PARKING LOT, ROTTING FENCES, BAD SMELL, INFECTIONS FROM WATER.

Could this be a safety concern? Yes ✓ No ____ If yes, please explain: I WOULD PERIODICALLY PUMP WATER VIA PORTABLE SUMP PUMP; I WOULD GET HAND INFECTIONS AFTER EVERY PUMPING EPISODE.

Do you have any other drainage/stormwater comments, or concerns? THE MAIN ISSUE IS A FAILED WATER RETENTION SYSTEM AT STANWOOD TOWNE CENTER: I PUT YELLOW DYE IN THEIR SYSTEM AND MY HAND TURNED YELLOW.

You can take this survey on-line at https://www.surveymonkey.com/s/F2DYMGB
or return this survey to the City of Stanwood

FAX: 360-629-3009 | SCAN/EMAIL: lisa.noonchester@ci.stanwood.wa.us
HAND DELIVER OR MAIL: City of Stanwood, 10220 270th Street NW, Stanwood, WA 98292

Cut along dashed line and fax, email or mail survey to the City

1-13-14 JM

Please provide assistance by completing the survey below.
Please respond by January 20, 2014

Take this survey on-line at https://www.surveymonkey.com/s/F2DYMGB

Name*: Carol E Reed

Address*: 27327 76th Dr. N.W. City: Stanwood, Wa. Zip: 98292

Phone Number*: 360-629-6069 Email*: _____

**This information will be used to follow-up with you if we need additional information*

Is it ok to contact you? Yes _____ No _____

Address/Location of the Drainage/Stormwater Concern: (*If you have a concern at multiple locations, please fill out a separate survey for each location*)

27327 76th Dr. N.W. Stanwood, Wa. 98292

Brief Description of Concern (ex. water flowing onto private property from city street, standing water on roadway, non-functioning storm drainage, etc. Please include copies of photos or a sketch of the drainage/stormwater concern if you have them.): Stanwood highschool drains, not working - baseball - track field. standing water in back yard for last 3 yrs. Drains under house

Type of Drainage/Stormwater Concern: Flooding? Standing Water? Water Quality? Habitat? Stream Erosion? Hillside Erosion?

It drains under my house

How often Does this Drainage/Stormwater Concern Occur? Every time it rains? Ongoing? Every Month? Annually? Every Five Years? Other?

2011 - 2012 - 2013

How long does the Drainage/Stormwater Concern Last? When did it last occur? How depth was the water? 1-6 hours? 24 hours? Days? 1 inches – 6 inches? 2 ft? 3 ft? _____

2013 - 3-4 days - 6 ins maybe more

Impact (ex. Water over road or sidewalk impacting vehicles or pedestrians, flooding or yards or homes, etc..)

5-6 (back yards)

Could this be a safety concern? Yes X No ___ If yes, please explain:

not good for foundation
water under my home can cause black mold

Do you have any other drainage/stormwater comments, or concerns?

You can take this survey on-line at https://www.surveymonkey.com/s/F2DYMGB
or return this survey to the City of Stanwood

FAX: 360-629-3009 | SCAN/EMAIL: lisa.noonchester@ci.stanwood.wa.us
HAND DELIVER OR MAIL: City of Stanwood, 10220 270th Street NW, Stanwood, WA 98292

Cut along dashed line and fax, email or mail survey to the City

entered 1-10-13 LN

Please provide assistance by completing the survey below.
Please respond by January 20, 2014

Take this survey on-line at https://www.surveymonkey.com/s/F2DYMGB

Name*: THAD NELSON

Address*: 7705 273rd St City: STANWOOD Zip: ~~WA~~ 98292

Phone Number*: 360 722 2842 Email*: —

**This information will be used to follow-up with you if we need additional information*

Is it ok to contact you? Yes ✓ No ____

Address/Location of the Drainage/Stormwater Concern: (*If you have a concern at multiple locations, please fill out a separate survey for each location*)
MARINE DRIVE At The Site of Recently Demolishined Feed Store

Brief Description of Concern (ex. water flowing onto private property from city street, standing water on roadway, non-functioning storm drainage, etc. Please include copies of photos or a sketch of the drainage/stormwater concern if you have them.):
RAIN WATER Covers East Side of marine Dr Just ~~East~~ South of 272nd

Type of Drainage/Stormwater Concern: Flooding? Standing Water? Water Quality? Habitat? Stream Erosion? Hillside Erosion?
Standing WATER

How often Does this Drainage/Stormwater Concern Occur? Every time it rains? Ongoing? Every Month? Annually? Every Five Years? Other?
Annually w/ Heavy RAIN

How long does the Drainage/Stormwater Concern Last? When did it last occur? How depth was the water? 1-6 hours? 24 hours? Days? 1 inches – 6 inches? 2 ft? 3 ft? Varies year to year but is a Problem every winter

Impact (ex. Water over road or sidewalk impacting vehicles or pedestrians, flooding or yards or homes, etc..)
WATER over roadway & IN YARDS

Could this be a safety concern? Yes ✓ No ____ If yes, please explain: Cars frequently Drive Around the Standing water, or Hydroplane

Do you have any other drainage/stormwater comments, or concerns?

No

You can take this survey on-line at https://www.surveymonkey.com/s/F2DYMGB
or return this survey to the City of Stanwood

FAX: 360-629-3009 | SCAN/EMAIL: lisa.noonchester@ci.stanwood.wa.us
HAND DELIVER OR MAIL: City of Stanwood, 10220 270th Street NW, Stanwood, WA 98292

Cut along dashed line and fax, email or mail survey to the City

entered 1-14

RECEIVED
JAN 14 2014
CITY OF STANWOOD

Please provide assistance by completing the survey below.
Please respond by January 20, 2014

Take this survey on-line at https://www.surveymonkey.com/s/F2DYMGB

Name*: BILL LENZ

Address*: 29201 LOGEN Rd. City: STANWOOD WA. Zip: 98292

Phone Number*: 360-629-9059 Email*: BLENZ1950@GMAIL.COM

**This information will be used to follow-up with you if we need additional information*

Is it ok to contact you? Yes X No ____

Address/Location of the Drainage/Stormwater Concern: (*If you have a concern at multiple locations, please fill out a separate survey for each location*) PLEASE SEE ATTACHED EXHIBIT #1. FROM 271 ST ST. NW TO THE NORTH, TO SR532 SOUTH. AND FROM 92ND AVE. N.W. TO THE WEST, TO 88TH AVE. N.W. EAST.

Brief Description of Concern (ex. water flowing onto private property from city street, standing water on roadway, non-functioning storm drainage, etc. Please include copies of photos or a sketch of the drainage/stormwater concern if you have them.): SEE ATTACHED EXHIBIT #1 SHOWING APPROXIMATE BOUNDARIES OF THE AREA WITH NO CITY STORM WATER HOOKUP - NON-FUNCTIONING STORM DRAINAGE.

Type of Drainage/Stormwater Concern: Flooding? Standing Water? Water Quality? Habitat? Stream Erosion? Hillside Erosion? FLOODING AND WATER QUALITY

How often Does this Drainage/Stormwater Concern Occur? Every time it rains? Ongoing? Every Month? Annually? Every Five Years? Other? THERE IS NO CITY OF STANWOOD STORM WATER CONNECTION AVAILABLE IN THIS MBII ZONED AREA OF STANWOOD, AND THERE SHOULD BE.

How long does the Drainage/Stormwater Concern Last? When did it last occur? How depth was the water? 1-6 hours? 24 hours? Days? 1 inches – 6 inches? 2 ft? 3 ft? ____

Impact (ex. Water over road or sidewalk impacting vehicles or pedestrians, flooding or yards or homes, etc..) INADEQUIT CITY OF STANWOOD STORM WATER CONVEYANCE CREATING UNNECESSARY NEED FOR RETENTION PONDS. NO HOOKUP AVAILABLE.

Could this be a safety concern? Yes ____ No X If yes, please explain:

Do you have any other drainage/stormwater comments, or concerns? NO

You can take this survey on-line at https://www.surveymonkey.com/s/F2DYMGB
or return this survey to the City of Stanwood

FAX: 360-629-3009 | SCAN/EMAIL: lisa.noonchester@ci.stanwood.wa.us
HAND DELIVER OR MAIL: City of Stanwood, 10220 270th Street NW, Stanwood, WA 98292

Cut along dashed line and fax, email or mail survey to the City

#1

COMPLETE

Collector: Web Link (Web Link)
Started: Tuesday, January 07, 2014 9:23:39 AM
Last Modified: Tuesday, January 07, 2014 9:36:19 AM
Time Spent: 00:12:39
IP Address: 24.113.238.193

PAGE 1

Q1: What is the address/location of the drainage/stormwater concern?

27901 86th Drive NW and the general neighborhood

Q2: Brief description of concern? Select all that apply.	Water flowing onto private property from city street, Non-functioning storm drainage, Other, Other (please specify) The draining system in this part of town has failed. Homes are being flooded. My property is filled with water every time it rains. Fortunately, my home is not flooded. My property is. Just come and look at the surface drainage on 86th Street and you will see what is happening.
Q3: Your drainage/stormwater concern is what type? Select all that apply.	Flooding, Standing Water, Hillside Erosion, Other (please specify) Erosion is very slow. Fortunately, there has been no sliding. When that happens, if it happens, it should make for some interesting court cases.
Q4: How often does this drainage/stormwater concern occur?	Annually

Q5: When was the last time this concern occurred?

Please enter date of last occurrence. 01/07/2014

Q6: How long does the drainage/stormwater concern last?	Days
Q7: How depth was the water?	1 - 6 inches
Q8: What is the impact of this concern? Select all that apply.	Flooding yards
Q9: Could this be a safety concern?	Yes, If yes, please explain: Trees fall down when the ground is saturated. We have lost several 50 year old trees that blow over when their feet are wet. It is a new and dangerous phenomena. (speeling is not my strong suit) My neighbor's basements have flooded. I have a crawl space. I have installed a sub pump. The crawl space used to be dry, unless the former owner did not tell the truth. That is not the case now. As I said elsewhere, 50 year old trees have died from the excessive water we are experiencing. I would imagine that the value of my property is going down, down, down. Want to buy it?

Q10: Do you have any other drainage/stormwater comments, or concerns?

Two homes above me have flooded twice from this problem. The entire system has failed and it is no one's fault and apparently no one's concern. We are blessed with surface water from the entire subdivision. Just look at 86th street during and after rain and you will see the problem. It even runs across Pioneer Highway.

Thanks for asking.

What will be done about it? What can be done about it?

Q11: Optional: Personal information will only be used if the city needs to contact you regarding your concern.

Name	John J. Shaffer
Address	2790l 86th Drive N.W. (P. O. Box 1784)
Phone	425-314-5916
Email	Jjsshaffer@aol.com

#2

COMPLETE

Collector: Web Link (Web Link)
Started: Tuesday, January 07, 2014 11:39:42 AM
Last Modified: Tuesday, January 07, 2014 11:49:03 AM
Time Spent: 00:09:21
IP Address: 162.72.190.220

PAGE 1

Q1: What is the address/location of the drainage/stormwater concern?

26920 94TH Drive NW, Stanwood WA. 98292

Q2: Brief description of concern? Select all that apply.	Water flowing onto private property from city street, Standing water on roadway, Non-functioning storm drainage
Q3: Your drainage/stormwater concern is what type? Select all that apply.	Flooding, Standing Water
Q4: How often does this drainage/stormwater concern occur?	Every Time it Rains

Q5: When was the last time this concern occurred?

Please enter date of last occurrence. 01/07/2014

Q6: How long does the drainage/stormwater concern last?	Days
Q7: How depth was the water?	1 ft
Q8: What is the impact of this concern? Select all that apply.	Water over roadway, Water over sidewalk, Impacting vehicles, Impacting pedestrians, Flooding yards
Q9: Could this be a safety concern?	Yes, If yes, please explain: An elderly (87 y/o) resident lives here. Handicapped assistance is very difficult due to standing water in front of residence. Your attention to this matter is appreciated.

Q10: Do you have any other drainage/stormwater comments, or concerns?

No

Q11: Optional: Personal information will only be used if the city needs to contact you regarding your concern.

Name	Paul I. Kalmakoff
Address	31310 English Grade Road
Phone	360-629-2085
Email	pik@wildblue.net

#3

COMPLETE

Collector: Web Link (Web Link)
Started: Wednesday, January 08, 2014 4:05:25 PM
Last Modified: Wednesday, January 08, 2014 4:41:21 PM
Time Spent: 00:35:55
IP Address: 24.113.139.150

PAGE 1

Q1: What is the address/location of the drainage/stormwater concern?

Enlarged, improved or upgraded infrastructure to serve new (or forecast) residential expansion should not be funded by monthly rate increases to existing properties. These charges should be borne entirely by the developers and/or buyers. Building permit collections should go into a trust fund along with any mitigation money in order to meet future or pending infrastructure needs.

Q2: Brief description of concern? Select all that apply.	Other, Other (please specify) Cost
Q3: Your drainage/stormwater concern is what type? Select all that apply.	Other (please specify) Cost
Q4: How often does this drainage/stormwater concern occur?	Every Month, Other (please specify) cost

Q5: When was the last time this concern occurred?

Please enter date of last occurrence. 12/01/2013

Q6: How long does the drainage/stormwater concern last?	Other, Other (please specify) cost
Q7: How depth was the water?	Other, Other (please specify) checkbook flooded
Q8: What is the impact of this concern? Select all that apply.	Other, Other (please specify) cost
Q9: Could this be a safety concern?	Yes, If yes, please explain: urge to kill

Q10: Do you have any other drainage/stormwater comments, or concerns?

The GMA and/or Comprehensive Plan update(s) should not be used to demand a greater monthly payment from homeowners residing in neighborhoods that have already paid escalating storm/sewer charges over a period of decades and helped to retire many bonds in favor of the City. I believe the facilities already in place are more than adequate to serve the development base that they were designed for almost indefinitely with normal maintenance. Unless all of these facilities are suddenly failing and need to be replaced as a result of age/deterioration (rather than the impact of poorly funded growth) I would protest the imposition of additional long-term indebtedness on existing construction to be shared along with new development. In effect, it is starting the clock all over again and asking owners to pay again for that which they have already paid for in the past. In fact, the City has already implemented major increases in storm/sewer charges over the years that in my opinion represent an unwarranted burden on existing homeowners.

Q11: Optional: Personal information will only be used if the city needs to contact you regarding your concern.	*Respondent skipped this question*

#4

COMPLETE

Collector: Web Link (Web Link)
Started: Wednesday, January 08, 2014 8:32:52 PM
Last Modified: Wednesday, January 08, 2014 8:41:13 PM
Time Spent: 00:08:21
IP Address: 204.195.12.118

PAGE 1

Q1: What is the address/location of the drainage/stormwater concern?

27126 96th Ave NW

Q2: Brief description of concern? Select all that apply.	Water flowing onto private property from city street, Standing water on roadway, Non-functioning storm drainage
Q3: Your drainage/stormwater concern is what type? Select all that apply.	Flooding, Standing Water, Habitat
Q4: How often does this drainage/stormwater concern occur?	Every Time it Rains, Other (please specify) We have standing water every time it rains, moderate flooding annually, and serious flooding when river is at flood stage

Q5: When was the last time this concern occurred?

Please enter date of last occurrence. 01/08/2014

Q6: How long does the drainage/stormwater concern last?	Days
Q7: How depth was the water?	1 - 6 inches, Other (please specify) Usually 1-6 during normal wet season, 2-3 feet during flood stages
Q8: What is the impact of this concern? Select all that apply.	Water over roadway, Water over sidewalk, Flooding yards
Q9: Could this be a safety concern?	Yes, If yes, please explain: When storm drain fails water is up to 3 feet in street and Library parking lot. It isn't obvious to drivers. It is also a hazard to pedestrians since the storm drain is under water with damaged pavement. It is also a concern with contaminated water.

Q10: Do you have any other drainage/stormwater comments, or concerns?

The issue has increased steadily over the past 10 years and we have not been able to find a viable way to reduce the flooding to our property.

Q11: Optional: Personal information will only be used if the city needs to contact you regarding your concern.

Name	Andy and Julie Johnson
Address	27126 96th Ave NW
Phone	360-629-3990
Email	andyandjulie@wavecable.com

#5

COMPLETE

Collector: Web Link (Web Link)
Started: Friday, January 10, 2014 2:57:24 PM
Last Modified: Friday, January 10, 2014 3:06:25 PM
Time Spent: 00:09:00
IP Address: 207.183.1.30

PAGE 1

Q1: What is the address/location of the drainage/stormwater concern?

Marine Drive and 271st at the site of recently demolished Wolfkill Feed store

Q2: Brief description of concern? Select all that apply.	Standing water on roadway, Other (please specify) Rain water covers east side of Marine Dr, south of 272nd
Q3: Your drainage/stormwater concern is what type? Select all that apply.	Standing Water
Q4: How often does this drainage/stormwater concern occur?	Every Time it Rains

Q5: When was the last time this concern occurred?

Please enter date of last occurrence. 12/01/2013

Q6: How long does the drainage/stormwater concern last?	Days
Q7: How depth was the water?	1 - 6 inches
Q8: What is the impact of this concern? Select all that apply.	Water over roadway, Flooding yards
Q9: Could this be a safety concern?	Yes, If yes, please explain: Cars frequently drive around the standing water or they hydroplane.

Q10: Do you have any other drainage/stormwater comments, or concerns?

No

Q11: Optional: Personal information will only be used if the city needs to contact you regarding your concern.

Name	Thad Nelson
Address	7705 273rd Street NW, Stanwood, WA 98292
Phone	360-722-2842

#6

COMPLETE

Collector: Web Link (Web Link)
Started: Monday, January 13, 2014 2:50:54 PM
Last Modified: Monday, January 13, 2014 3:05:38 PM
Time Spent: 00:14:43
IP Address: 50.47.202.210

PAGE 1

Q1: What is the address/location of the drainage/stormwater concern?

264th street and 95th Ave, just south of the sewer lagoon

Q2: Brief description of concern? Select all that apply.	Water flowing onto private property from city street, Other (please specify) ditches need to be cleaned
Q3: Your drainage/stormwater concern is what type? Select all that apply.	Standing Water
Q4: How often does this drainage/stormwater concern occur?	Ongoing

Q5: When was the last time this concern occurred?

Please enter date of last occurrence. 01/12/2014

Q6: How long does the drainage/stormwater concern last?	Days
Q7: How depth was the water?	1 - 6 inches
Q8: What is the impact of this concern? Select all that apply.	Flooding yards
Q9: Could this be a safety concern?	No

Q10: Do you have any other drainage/stormwater comments, or concerns?

Snohomish County kept these ditches cleaned until they were annexed to the City of Stanwood. They told me they could still do it, but needed an inter-local agreement with the City first. In 2009 I talked to Andy Bullington numerous times regarding this problem, but nothing was ever done. It has been about 20 years since the ditch along 264th st has been cleaned.

Q11: Optional: Personal information will only be used if the city needs to contact you regarding your concern.

Name	Bobbie Eldridge
Address	26219 95th Ave NW, Stanwood, WA 98292
Phone	360-629-3352
Email	bobbie@eldridges.org

#7

COMPLETE

Collector: Web Link (Web Link)
Started: Monday, January 13, 2014 7:09:53 PM
Last Modified: Monday, January 13, 2014 7:15:00 PM
Time Spent: 00:05:06
IP Address: 24.113.14.115

PAGE 1

Q1: What is the address/location of the drainage/stormwater concern?

At the corner of 81st Dr & 272nd

Q2: Brief description of concern? Select all that apply.	Standing water on roadway, Non-functioning storm drainage
Q3: Your drainage/stormwater concern is what type? Select all that apply.	Standing Water
Q4: How often does this drainage/stormwater concern occur?	Every Time it Rains

Q5: When was the last time this concern occurred?

Please enter date of last occurrence. 01/09/2014

Q6: How long does the drainage/stormwater concern last?	24 hours
Q7: How depth was the water?	1 - 6 inches
Q8: What is the impact of this concern? Select all that apply.	Water over roadway, Impacting vehicles
Q9: Could this be a safety concern?	No

Q10: Do you have any other drainage/stormwater comments, or concerns?

No

Q11: Optional: Personal information will only be used if the city needs to contact you regarding your concern.

Name	Hendrick Husby
Address	26929 81st Dr NW
Phone	360-939-0300

#8

COMPLETE

Collector: Web Link (Web Link)
Started: Monday, January 13, 2014 7:25:09 PM
Last Modified: Monday, January 13, 2014 7:30:53 PM
Time Spent: 00:05:44
IP Address: 24.113.14.115

PAGE 1

Q1: What is the address/location of the drainage/stormwater concern?

72nd Ave

Q2: Brief description of concern? Select all that apply.	Water flowing onto private property from city street
Q3: Your drainage/stormwater concern is what type? Select all that apply.	Standing Water
Q4: How often does this drainage/stormwater concern occur?	Every Time it Rains

Q5: When was the last time this concern occurred?

Please enter date of last occurrence. 01/09/2014

Q6: How long does the drainage/stormwater concern last?	Days
Q7: How depth was the water?	1 - 6 inches
Q8: What is the impact of this concern? Select all that apply.	Flooding yards, Other, Other (please specify) it is flooding the field
Q9: Could this be a safety concern?	No

Q10: Do you have any other drainage/stormwater comments, or concerns?

Drain water from housing hope apts at 72nd & 276th should have been piped over to the storm drain on the east side of 72nd instead of into the ditch on west side

Q11: Optional: Personal information will only be used if the city needs to contact you regarding your concern.

Name	Wallace Middleton
Address	27312 72nd Ave NW
Phone	360-629-2946

#9

COMPLETE

Collector: Web Link (Web Link)
Started: Monday, January 13, 2014 7:36:39 PM
Last Modified: Monday, January 13, 2014 7:47:09 PM
Time Spent: 00:10:29
IP Address: 24.113.14.115

PAGE 1

Q1: What is the address/location of the drainage/stormwater concern?

9332 271st Street NW

Q2: Brief description of concern? Select all that apply.	Non-functioning storm drainage, Other, Other (please specify) Flooding from Town Center (QFC) property
Q3: Your drainage/stormwater concern is what type? Select all that apply.	Flooding, Standing Water, Other (please specify) Health
Q4: How often does this drainage/stormwater concern occur?	Ongoing

Q5: When was the last time this concern occurred?

Please enter date of last occurrence. 01/09/2014

Q6: How long does the drainage/stormwater concern last?	Days
Q7: How depth was the water?	2 ft
Q8: What is the impact of this concern? Select all that apply.	Impacting pedestrians, Flooding homes, Other, Other (please specify) Flooding foundation, bad smell, infections from water
Q9: Could this be a safety concern?	Yes, If yes, please explain: Periodically pump water with portable sump pump and would get hand infection after every pumping episode.

Q10: Do you have any other drainage/stormwater comments, or concerns?

The main issue is a failed water retention system at stanwood town center: I put yellow dye in their system and my land turned yellow.

Q11: Optional: Personal information will only be used if the city needs to contact you regarding your concern.

Name	Terry Greer
Address	PO Box 879, 9332 271st Street NW, Stanwood 98292
Phone	360-629-9420
Email	tgreer@tgi.net

#10

COMPLETE

Collector: Web Link (Web Link)
Started: Monday, January 13, 2014 7:56:03 PM
Last Modified: Monday, January 13, 2014 8:05:21 PM
Time Spent: 00:09:17
IP Address: 24.113.14.115

PAGE 1

Q1: What is the address/location of the drainage/stormwater concern?

27327 76th Dr NW

Q2: Brief description of concern? Select all that apply.	Non-functioning storm drainage, Other, Other (please specify) water from high school flooding backyards and under house. Bball field & track under water
Q3: Your drainage/stormwater concern is what type? Select all that apply.	Standing Water, Other (please specify) Water drains under my house
Q4: How often does this drainage/stormwater concern occur?	Annually, Other (please specify) been happening annually since 2011
Q5: When was the last time this concern occurred?	*Respondent skipped this question*
Q6: How long does the drainage/stormwater concern last?	Days
Q7: How depth was the water?	1 - 6 inches
Q8: What is the impact of this concern? Select all that apply.	Flooding yards, Other, Other (please specify) floods 5 to 6 backyards
Q9: Could this be a safety concern?	Yes, If yes, please explain: Not good for foundation, water under my house can cause black mold

Q10: Do you have any other drainage/stormwater comments, or concerns?

No

Q11: Optional: Personal information will only be used if the city needs to contact you regarding your concern.

Name	Carol E. Reed
Address	27327 76th Dr NW
Phone	360-629-6069

#11

COMPLETE

Collector: Web Link (Web Link)
Started: Tuesday, January 14, 2014 11:18:47 AM
Last Modified: Tuesday, January 14, 2014 11:24:59 AM
Time Spent: 00:06:12
IP Address: 207.183.1.30

PAGE 1

Q1: What is the address/location of the drainage/stormwater concern?

Church Creek Estates Development

Q2: Brief description of concern? Select all that apply.	Other, Other (please specify) 1998 heard lots of frogs, now only silence. Frogs area a good indicator of enviornmental health
Q3: Your drainage/stormwater concern is what type? Select all that apply.	Habitat
Q4: How often does this drainage/stormwater concern occur?	Other, Other (please specify) Have not heard from frogs for several years
Q5: When was the last time this concern occurred?	*Respondent skipped this question*
Q6: How long does the drainage/stormwater concern last?	Other, Other (please specify) the absence of frags has been for years
Q7: How depth was the water?	Other, Other (please specify) n/a
Q8: What is the impact of this concern? Select all that apply.	Other, Other (please specify) impact is to habitats
Q9: Could this be a safety concern?	No

Q10: Do you have any other drainage/stormwater comments, or concerns?

Use enviormental friendly. When spraying for weeds & blackberries. City killed alot more enviornment than intended.

Q11: Optional: Personal information will only be used if the city needs to contact you regarding your concern.	*Respondent skipped this question*

#12

COMPLETE

Collector: Web Link (Web Link)
Started: Tuesday, January 14, 2014 2:25:29 PM
Last Modified: Tuesday, January 14, 2014 2:31:57 PM
Time Spent: 00:06:28
IP Address: 207.183.1.30

PAGE 1

Q1: What is the address/location of the drainage/stormwater concern?

See attached photo - 271st St NW to the North, SR532 South and from 92nd Ave NW to the West, to 88th Ave NW East.

Q2: Brief description of concern? Select all that apply.	Non-functioning storm drainage, Other (please specify) attached photo shows boundaries of the area w/no city stormwater hookup.
Q3: Your drainage/stormwater concern is what type? Select all that apply.	Flooding, Water Quality
Q4: How often does this drainage/stormwater concern occur?	Other, Other (please specify) There is no city stormwater connection available in this MB11 zoned area and there should be.
Q5: When was the last time this concern occurred?	*Respondent skipped this question*
Q6: How long does the drainage/stormwater concern last?	Other, Other (please specify) n/a
Q7: How depth was the water?	Other, Other (please specify) n/a
Q8: What is the impact of this concern? Select all that apply.	Other, Other (please specify) Inadiquit cit stormwater conveyance creating unnecessary need for retention ponds. No hookup available.
Q9: Could this be a safety concern?	No

Q10: Do you have any other drainage/stormwater comments, or concerns?

No

Q11: Optional: Personal information will only be used if the city needs to contact you regarding your concern.

Name	Bill Lenz
Address	29201 Logen Rd, Stanwood, WA 98292
Phone	360-629-9059
Email	blenz1950@gmail.com

#13

COMPLETE

Collector: Web Link (Web Link)
Started: Tuesday, January 14, 2014 9:59:33 PM
Last Modified: Tuesday, January 14, 2014 10:19:23 PM
Time Spent: 00:19:50
IP Address: 50.47.223.96

PAGE 1

Q1: What is the address/location of the drainage/stormwater concern?

27030 102nd Dr NW Stanwood WA 98292

Q2: Brief description of concern? Select all that apply.	Other, Other (please specify) Yard floods during heavy rains
Q3: Your drainage/stormwater concern is what type? Select all that apply.	Flooding, Standing Water
Q4: How often does this drainage/stormwater concern occur?	Other, Other (please specify) During heavy rains

Q5: When was the last time this concern occurred?

Please enter date of last occurrence. 01/13/2014

Q6: How long does the drainage/stormwater concern last?	Days
Q7: How depth was the water?	Other, Other (please specify) 1-12 inches, depending upon the rain
Q8: What is the impact of this concern? Select all that apply.	Flooding yards, Other, Other (please specify) Blocks both entrances to house
Q9: Could this be a safety concern?	No

Q10: Do you have any other drainage/stormwater comments, or concerns?

Our yard is a low spot in the neighborhood. Property has storm drain, but it is on the high side near street, so only during extensive flooding does the water drain out.

Q11: Optional: Personal information will only be used if the city needs to contact you regarding your concern.

Name	James Coleman
Address	27030 102nd Dr NW
Phone	3606296058
Email	jamesbcoleman@hotmail.com

#14

COMPLETE

Collector: Web Link (Web Link)
Started: Thursday, January 16, 2014 7:27:21 AM
Last Modified: Thursday, January 16, 2014 9:39:37 AM
Time Spent: 02:12:16
IP Address: 138.163.106.73

PAGE 1

Q1: What is the address/location of the drainage/stormwater concern?

Summerset
278th Place NW

Q2: Brief description of concern? Select all that apply.	Other, Other (please specify) City Water Tower property debris runs off onto roadway and into storm system and drainage pond (pond is owned by home owners)
Q3: Your drainage/stormwater concern is what type? Select all that apply.	Water Quality, Habitat, Hillside Erosion, Other (please specify) City Property runoff debris uneccessarily puts debris in privately owned storm pond and creates additional maintenance and cost burdens on homeowners.
Q4: How often does this drainage/stormwater concern occur?	Ongoing, Other (please specify) When it rains AND when city trucks (more than once a day) go to the water tower project - trucks bring debris from gravel/dirt road onto roadway. This debris gets in storm system.

Q5: When was the last time this concern occurred?

Please enter date of last occurrence. 01/16/2014

Q6: How long does the drainage/stormwater concern last?	Other, Other (please specify) ongoing.
Q7: How depth was the water?	Other, Other (please specify) Debris based on rain and amount of vehicle traffic at the city water tower.
Q8: What is the impact of this concern? Select all that apply.	Other, Other (please specify) The drainage pond is privately owned and maintained. The debris from the city property AND the runoff should not go to the storm system on 278th PL NW since it goes to the privately owned pond. This debris decreases the life of the pond and will require residents to pay for servicing the pond and more frequent intervals.
Q9: Could this be a safety concern?	No

Q10: Do you have any other drainage/stormwater comments, or concerns?

The City should take over maintenance and ownership of ALL drainage ponds in the city limits. This will ensure uniformity and proper maintenance. Stormwater ponds are the weak link in the system- privately maintained by novice homeowners. Modest fees to defer the cost of the maintenance of the pond could be incorporated into existing drainage fees. Housing Developments bring revenue to local business and strengthen the local economy. Support the Stanwood residents and take over the drainage ponds.

Q11: Optional: Personal information will only be used if the city needs to contact you regarding your concern.

Name	Anthony Hardenbrook
Address	7715 278th Place NW
Phone	3609133087

#15

COMPLETE

Collector: Web Link (Web Link)
Started: Thursday, January 16, 2014 10:31:52 AM
Last Modified: Thursday, January 16, 2014 10:38:14 AM
Time Spent: 00:06:22
IP Address: 207.183.1.30

PAGE 1

Q1: What is the address/location of the drainage/stormwater concern?

South end of 86th Dr. just before entering Pioneer Hwy

Q2: Brief description of concern? Select all that apply.	Other, Other (please specify) Water flowing accross 86th Dr. and down to Pioneer Hwy.
Q3: Your drainage/stormwater concern is what type? Select all that apply.	*Respondent skipped this question*
Q4: How often does this drainage/stormwater concern occur?	Every Time it Rains
Q5: When was the last time this concern occurred?	*Respondent skipped this question*
Q6: How long does the drainage/stormwater concern last?	Other, Other (please specify) It occurs durning and after a moderate to light rain
Q7: How depth was the water?	Other, Other (please specify) Flowing
Q8: What is the impact of this concern? Select all that apply.	Water over roadway, Impacting vehicles, Impacting pedestrians, Other, Other (please specify) Impact when it freezes
Q9: Could this be a safety concern?	Yes, If yes, please explain: When it freezes it would be difficult to stop when you are going down to Pioneer Hwy.
Q10: Do you have any other drainage/stormwater comments, or concerns?	*Respondent skipped this question*

Q11: Optional: Personal information will only be used if the city needs to contact you regarding your concern.

Name	Charles R. (Bob) Hitz
Address	27929 85th Dr. NW
Phone	360-631-9539
Email	bobhitz@wavecable.com

#16

COMPLETE

Collector: Web Link (Web Link)
Started: Thursday, January 16, 2014 2:59:36 PM
Last Modified: Thursday, January 16, 2014 3:06:00 PM
Time Spent: 00:06:23
IP Address: 207.183.1.30

PAGE 1

Q1: What is the address/location of the drainage/stormwater concern?

7710 Stauffer Rd

Q2: Brief description of concern? Select all that apply.	Water flowing onto private property from city street
Q3: Your drainage/stormwater concern is what type? Select all that apply.	Flooding
Q4: How often does this drainage/stormwater concern occur?	Every Time it Rains

Q5: When was the last time this concern occurred?

Please enter date of last occurrence. 01/09/2014

Q6: How long does the drainage/stormwater concern last?	1-6 hours
Q7: How depth was the water?	1 - 6 inches
Q8: What is the impact of this concern? Select all that apply.	Flooding yards, Flooding homes, Other (please specify) I live 1/2 down the hill, the water runs under my house to get to the bottom of the hill.
Q9: Could this be a safety concern?	No

Q10: Do you have any other drainage/stormwater comments, or concerns?

The holding pond by my house is a breeding ground for mossquitos.

Q11: Optional: Personal information will only be used if the city needs to contact you regarding your concern.

Name	Helene Watkins
Address	7710 Stauffer Rd
Phone	425-422-9288
Email	hmwatkins1@yahoo.com

#17

COMPLETE

Collector: Web Link (Web Link)
Started: Saturday, January 18, 2014 12:21:45 AM
Last Modified: Saturday, January 18, 2014 12:25:24 AM
Time Spent: 00:03:38
IP Address: 204.195.11.174

PAGE 1

Q1: What is the address/location of the drainage/stormwater concern?

7720 stauffer rd

Q2: Brief description of concern? Select all that apply.	Water flowing onto private property from city street, Standing water on roadway, Other, Other (please specify) NO storm drainage
Q3: Your drainage/stormwater concern is what type? Select all that apply.	Flooding, Standing Water, Hillside Erosion, Other (please specify) Nearly flooded my garage in last storm.
Q4: How often does this drainage/stormwater concern occur?	Every Time it Rains, Other (please specify) Near flooding not as much

Q5: When was the last time this concern occurred?

Please enter date of last occurrence. 01/13/2014

Q6: How long does the drainage/stormwater concern last?	Other, Other (please specify) How ever long the rains last
Q7: How depth was the water?	1 - 6 inches
Q8: What is the impact of this concern? Select all that apply.	Water over roadway, Flooding yards
Q9: Could this be a safety concern?	No
Q10: Do you have any other drainage/stormwater comments, or concerns?	*Respondent skipped this question*

Q11: Optional: Personal information will only be used if the city needs to contact you regarding your concern.

Name	Doug chandler
Address	7$20 stauffer rd
Phone	3606291715
Email	dougpc1@uw.edu

#18

COMPLETE

Collector: Web Link (Web Link)
Started: Monday, January 20, 2014 8:27:13 PM
Last Modified: Monday, January 20, 2014 8:32:16 PM
Time Spent: 00:05:03
IP Address: 50.47.73.119

PAGE 1

Q1: What is the address/location of the drainage/stormwater concern?

84TH NW just south of 271st

Q2: Brief description of concern? Select all that apply.	Standing water on roadway
Q3: Your drainage/stormwater concern is what type? Select all that apply.	Flooding, Standing Water
Q4: How often does this drainage/stormwater concern occur?	Every Time it Rains
Q5: When was the last time this concern occurred?	
Please enter date of last occurrence.	01/08/2014
Q6: How long does the drainage/stormwater concern last?	Days
Q7: How depth was the water?	1 - 6 inches
Q8: What is the impact of this concern? Select all that apply.	Water over roadway, Impacting vehicles
Q9: Could this be a safety concern?	Yes, If yes, please explain: Swerving to miss the water - splashing on windshields obscuring vision - brakes
Q10: Do you have any other drainage/stormwater comments, or concerns?	*Respondent skipped this question*

Q11: Optional: Personal information will only be used if the city needs to contact you regarding your concern.

Name	Ralph H. Nichols
Email	ralphhnichols@frontier.com

#19

COMPLETE

Collector: Web Link (Web Link)
Started: Wednesday, January 22, 2014 9:42:58 AM
Last Modified: Wednesday, January 22, 2014 9:48:41 AM
Time Spent: 00:05:42
IP Address: 207.183.1.30

PAGE 1

Q1: What is the address/location of the drainage/stormwater concern?

27813 80th Ave NW

Q2: Brief description of concern? Select all that apply.	Non-functioning storm drainage
Q3: Your drainage/stormwater concern is what type? Select all that apply.	Standing Water
Q4: How often does this drainage/stormwater concern occur?	Annually

Q5: When was the last time this concern occurred?

Please enter date of last occurrence. 01/15/2013

Q6: How long does the drainage/stormwater concern last?	Other
Q7: How depth was the water?	1 - 6 inches
Q8: What is the impact of this concern? Select all that apply.	Flooding yards, Flooding homes
Q9: Could this be a safety concern?	No

Q10: Do you have any other drainage/stormwater comments, or concerns?

None

Q11: Optional: Personal information will only be used if the city needs to contact you regarding your concern.

Name	Rod Sundberg
Address	27813 80th Ave NW, Stanwood, WA 98292
Phone	360-629-3632

#20

COMPLETE

Collector: Web Link (Web Link)
Started: Wednesday, January 22, 2014 10:59:28 AM
Last Modified: Wednesday, January 22, 2014 11:08:25 AM
Time Spent: 00:08:56
IP Address: 207.183.1.30

PAGE 1

Q1: What is the address/location of the drainage/stormwater concern?

27616 84th Drive NW

Q2: Brief description of concern? Select all that apply.	Water flowing onto private property from city street
Q3: Your drainage/stormwater concern is what type? Select all that apply.	Flooding, Standing Water
Q4: How often does this drainage/stormwater concern occur?	Every Time it Rains

Q5: When was the last time this concern occurred?

Please enter date of last occurrence. 01/09/2014

Q6: How long does the drainage/stormwater concern last?	Days
Q7: How depth was the water?	Other, Other (please specify) Rained on 1/9 as of 1/14 there is 2 to 4 inches of standing water in back yard
Q8: What is the impact of this concern? Select all that apply.	Flooding yards, Flooding homes
Q9: Could this be a safety concern?	Yes, If yes, please explain: water goes under garage floor to backyard, has come up around a metal pole to keep car from hitting gas furnace.

Q10: Do you have any other drainage/stormwater comments, or concerns?

Ground is so waterlogged in spring in backyard on the north side area no one can mow lawn, mud is 4" to 5" deep. By the end of June it has dried out some.

Q11: Optional: Personal information will only be used if the city needs to contact you regarding your concern.

Name	Marilyn Stone
Address	27616 84th Dr NW, Stanwood, WA 98292
Phone	360-629-4038
Email	marhsto@wavecable.com

#21

COMPLETE

Collector: Web Link (Web Link)
Started: Wednesday, January 22, 2014 2:01:39 PM
Last Modified: Wednesday, January 22, 2014 2:04:00 PM
Time Spent: 00:02:20
IP Address: 204.195.13.89

PAGE 1

Q1: What is the address/location of the drainage/stormwater concern?

downtown behind Viking Village and alongside the tracks across the tracks from Wolf Kill and by Herbs Diner

Q2: Brief description of concern? Select all that apply.	Standing water on roadway, Non-functioning storm drainage
Q3: Your drainage/stormwater concern is what type? Select all that apply.	Flooding, Standing Water
Q4: How often does this drainage/stormwater concern occur?	Ongoing
Q5: When was the last time this concern occurred?	*Respondent skipped this question*
Q6: How long does the drainage/stormwater concern last?	Days
Q7: How depth was the water?	1 - 6 inches
Q8: What is the impact of this concern? Select all that apply.	Water over roadway, Water over sidewalk, Impacting vehicles, Impacting pedestrians
Q9: Could this be a safety concern?	Yes
Q10: Do you have any other drainage/stormwater comments, or concerns?	*Respondent skipped this question*
Q11: Optional: Personal information will only be used if the city needs to contact you regarding your concern.	*Respondent skipped this question*

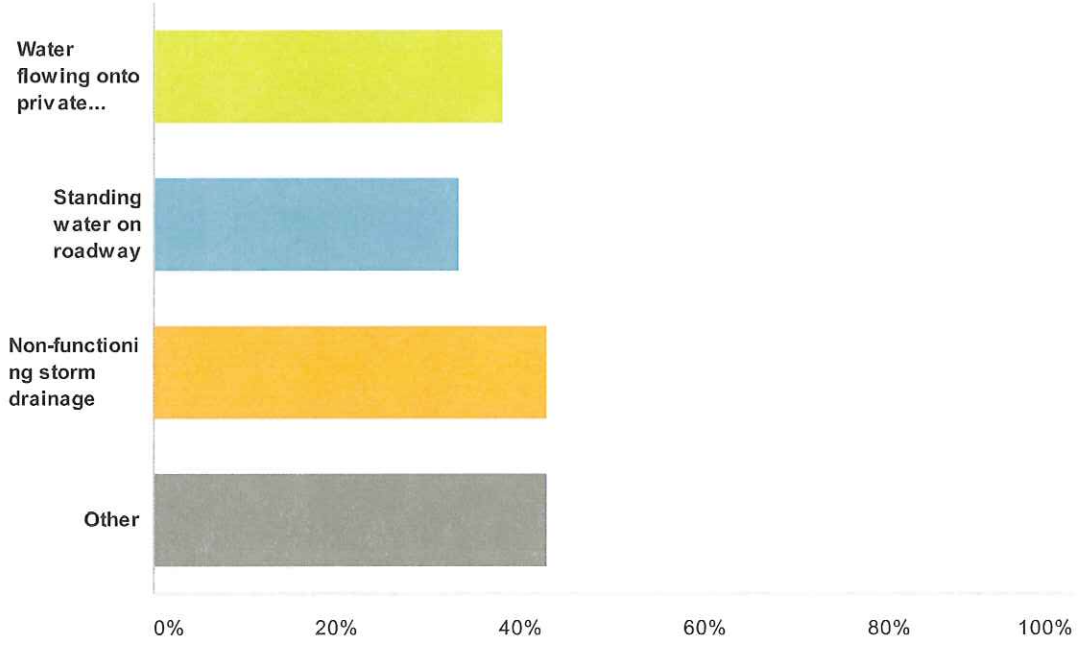
Q1 What is the address/location of the drainage/stormwater concern?

Answered: 21 Skipped: 0

#	Responses	Date
1	downtown behind Viking Village and alongside the tracks across the tracks from Wolf Kill and by Herbs Diner	1/22/2014 2:04 PM
2	27616 84th Drive NW	1/22/2014 11:08 AM
3	27813 80th Ave NW	1/22/2014 9:49 AM
4	84TH NW just south of 271st	1/20/2014 8:32 PM
5	7720 stauffer rd	1/18/2014 12:25 AM
6	7710 Stauffer Rd	1/16/2014 3:06 PM
7	South end of 86th Dr. just before entering Pioneer Hwy	1/16/2014 10:38 AM
8	Summerset 278th Place NW	1/16/2014 9:40 AM
9	27030 102nd Dr NW Stanwood WA 98292	1/14/2014 10:19 PM
10	See attached photo - 271st St NW to the North, SR532 South and from 92nd Ave NW to the West, to 88th Ave NW East.	1/14/2014 2:32 PM
11	Church Creek Estates Development	1/14/2014 11:25 AM
12	27327 76th Dr NW	1/13/2014 8:05 PM
13	9332 271st Street NW	1/13/2014 7:47 PM
14	72nd Ave	1/13/2014 7:31 PM
15	At the corner of 81st Dr & 272nd	1/13/2014 7:15 PM
16	264th street and 95th Ave, just south of the sewer lagoon	1/13/2014 3:06 PM
17	Marine Drive and 271st at the site of recently demolished Wolfkill Feed store	1/10/2014 3:06 PM
18	27126 96th Ave NW	1/8/2014 8:41 PM
19	Enlarged, improved or upgraded infrastructure to serve new (or forecast) residential expansion should not be funded by monthly rate increases to existing properties. These charges should be borne entirely by the developers and/or buyers. Building permit collections should go into a trust fund along with any mitigation money in order to meet future or pending infrastructure needs.	1/8/2014 4:41 PM
20	26920 94TH Drive NW, Stanwood WA. 98292	1/7/2014 11:49 AM
21	27901 86th Drive NW and the general neighborhood	1/7/2014 9:36 AM

Q2 Brief description of concern? Select all that apply.

Answered: 21 Skipped: 0



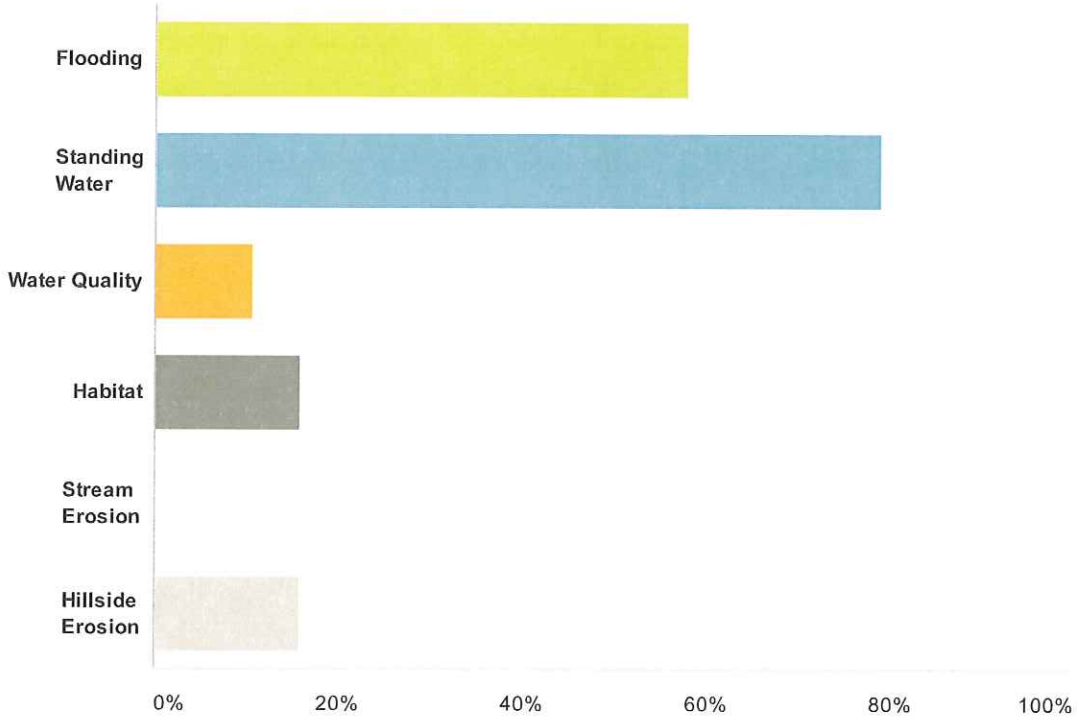
Answer Choices	Responses	
Water flowing onto private property from city street	**38.10%**	8
Standing water on roadway	**33.33%**	7
Non-functioning storm drainage	**42.86%**	9
Other	**42.86%**	9
Total Respondents: 21		

#	Other (please specify)	Date
1	NO storm drainage	1/18/2014 12:25 AM
2	Water flowing accross 86th Dr. and down to Pioneer Hwy.	1/16/2014 10:38 AM
3	City Water Tower property debris runs off onto roadway and into storm system and drainage pond (pond is owned by home owners)	1/16/2014 9:40 AM
4	Yard floods during heavy rains	1/14/2014 10:19 PM
5	attached photo shows boundaries of the area w/no city stormwater hookup.	1/14/2014 2:32 PM
6	1998 heard lots of frogs, now only silence. Frogs area a good indicator of enviommental health	1/14/2014 11:25 AM
7	water from high school flooding backyards and under house. Bball field & track under water	1/13/2014 8:05 PM
8	Flooding from Town Center (QFC) property	1/13/2014 7:47 PM
9	ditches need to be cleaned	1/13/2014 3:06 PM
10	Rain water covers east side of Marine Dr, south of 272nd	1/10/2014 3:06 PM
11	Cost	1/8/2014 4:41 PM

12	The draining system in this part of town has failed. Homes are being flooded. My property is filled with water every time it rains. Fortunately, my home is not flooded. My property is. Just come and look at the surface drainage on 86th Street and you will see what is happening.	1/7/2014 9:36 AM

Q3 Your drainage/stormwater concern is what type? Select all that apply.

Answered: 19 Skipped: 2

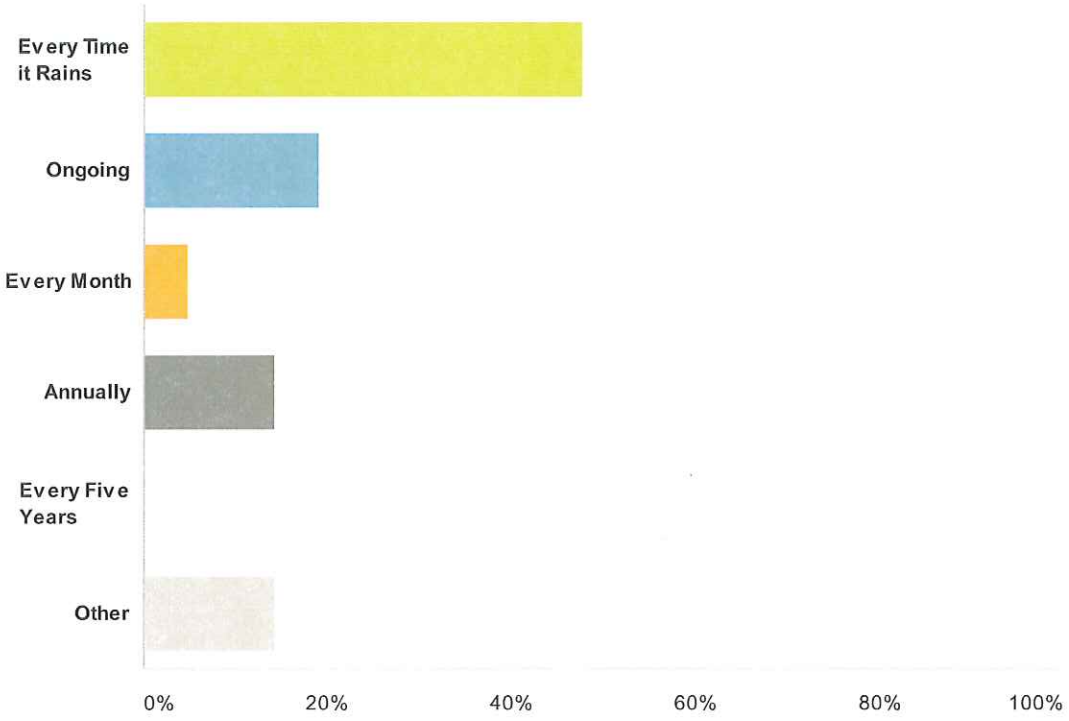


Answer Choices	Responses	
Flooding	57.89%	11
Standing Water	78.95%	15
Water Quality	10.53%	2
Habitat	15.79%	3
Stream Erosion	0%	0
Hillside Erosion	15.79%	3
Total Respondents: 19		

#	Other (please specify)	Date
1	Nearly flooded my garage in last storm.	1/18/2014 12:25 AM
2	City Property runoff debris uneccessarily puts debris in privately owned storm pond and creates additional maintenance and cost burdens on homeowners.	1/16/2014 9:40 AM
3	Water drains under my house	1/13/2014 8:05 PM
4	Health	1/13/2014 7:47 PM
5	Cost	1/8/2014 4:41 PM
6	Erosion is very slow. Fortunately, there has been no sliding. When that happens, if it happens, it should make for some interesting court cases.	1/7/2014 9:36 AM

Q4 How often does this drainage/stormwater concern occur?

Answered: 21 Skipped: 0



Answer Choices	Responses	
Every Time it Rains	**47.62%**	10
Ongoing	**19.05%**	4
Every Month	**4.76%**	1
Annually	**14.29%**	3
Every Five Years	**0%**	0
Other	**14.29%**	3
Total		**21**

#	Other (please specify)	Date
1	Near flooding not as much	1/18/2014 12:25 AM
2	When it rains AND when city trucks (more than once a day) go to the water tower project - trucks bring debris from gravel/dirt road onto roadway. This debris gets in storm system.	1/16/2014 9:40 AM
3	During heavy rains	1/14/2014 10:19 PM
4	There is no city stormwater connection available in this MB11 zoned area and there should be.	1/14/2014 2:32 PM
5	Have not heard from frogs for several years	1/14/2014 11:25 AM
6	been happening annually since 2011	1/13/2014 8:05 PM
7	We have standing water every time it rains, moderate flooding annually, and serious flooding when river is at flood stage	1/8/2014 8:41 PM

8	cost	1/8/2014 4:41 PM

Q5 When was the last time this concern occurred?

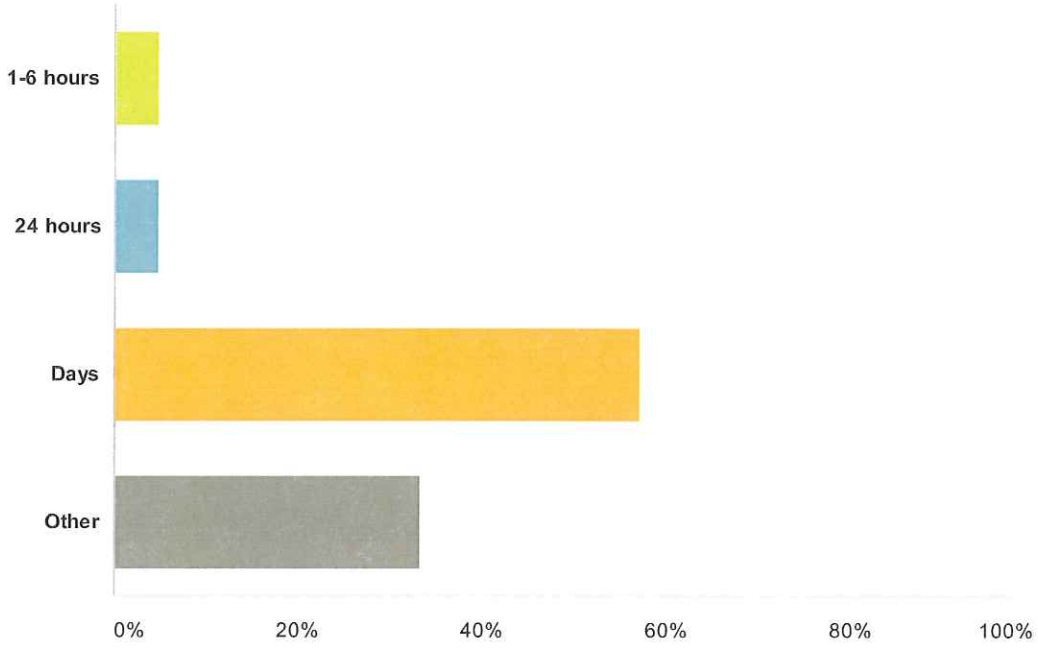
Answered: 16 Skipped: 5

Answer Choices	Responses	
Please enter date of last occurrence.	100%	16

#	Please enter date of last occurrence.	Date
1	01/09/2014	1/22/2014 11:08 AM
2	01/15/2013	1/22/2014 9:49 AM
3	01/08/2014	1/20/2014 8:32 PM
4	01/13/2014	1/18/2014 12:25 AM
5	01/09/2014	1/16/2014 3:06 PM
6	01/16/2014	1/16/2014 9:40 AM
7	01/13/2014	1/14/2014 10:19 PM
8	01/09/2014	1/13/2014 7:47 PM
9	01/09/2014	1/13/2014 7:31 PM
10	01/09/2014	1/13/2014 7:15 PM
11	01/12/2014	1/13/2014 3:06 PM
12	12/01/2013	1/10/2014 3:06 PM
13	01/08/2014	1/8/2014 8:41 PM
14	12/01/2013	1/8/2014 4:41 PM
15	01/07/2014	1/7/2014 11:49 AM
16	01/07/2014	1/7/2014 9:36 AM

Q6 How long does the drainage/stormwater concern last?

Answered: 21 Skipped: 0

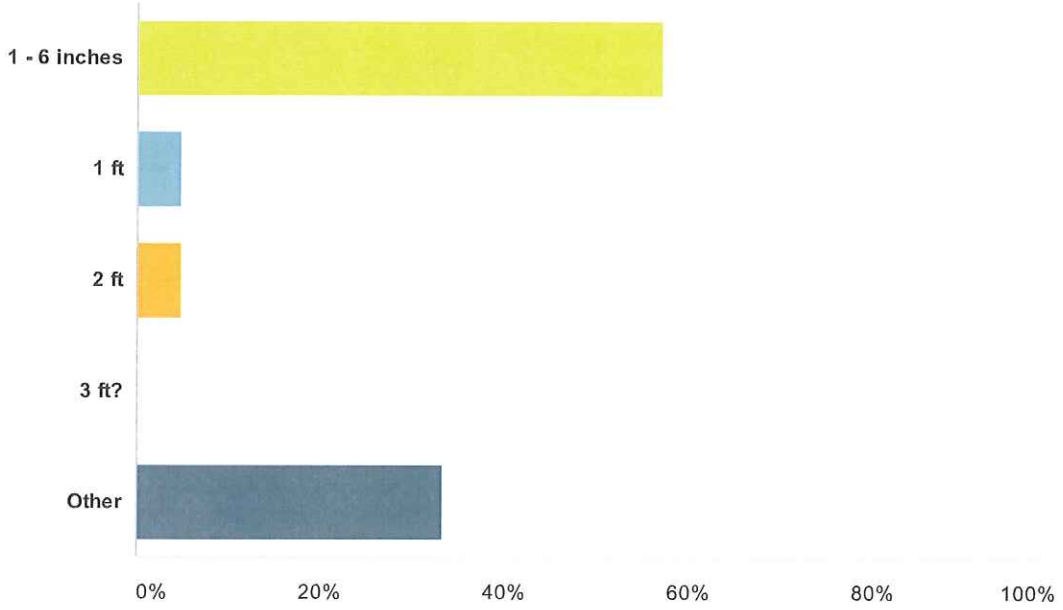


Answer Choices	Responses	
1-6 hours	**4.76%**	1
24 hours	**4.76%**	1
Days	**57.14%**	12
Other	**33.33%**	7
Total		**21**

#	Other (please specify)	Date
1	However long the rains last	1/18/2014 12:25 AM
2	It occurs during and after a moderate to light rain	1/16/2014 10:38 AM
3	ongoing.	1/16/2014 9:40 AM
4	n/a	1/14/2014 2:32 PM
5	the absence of frags has been for years	1/14/2014 11:25 AM
6	cost	1/8/2014 4:41 PM

Q7 How depth was the water?

Answered: 21 Skipped: 0

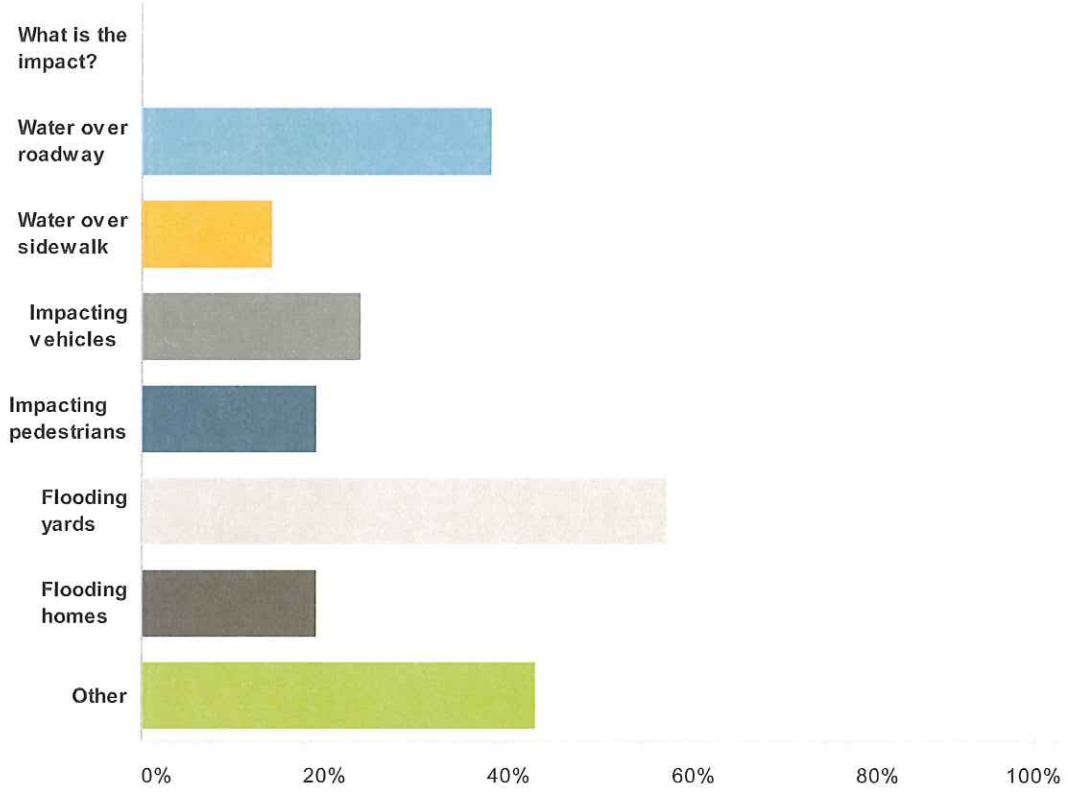


Answer Choices	Responses	
1 - 6 inches	**57.14%**	12
1 ft	**4.76%**	1
2 ft	**4.76%**	1
3 ft?	**0%**	0
Other	**33.33%**	7
Total		**21**

#	Other (please specify)	Date
1	Rained on 1/9 as of 1/14 there is 2 to 4 inches of standing water in back yard	1/22/2014 11:08 AM
2	Flowing	1/16/2014 10:38 AM
3	Debris based on rain and amount of vehicle traffic at the city water tower.	1/16/2014 9:40 AM
4	1-12 inches, depending upon the rain	1/14/2014 10:19 PM
5	n/a	1/14/2014 2:32 PM
6	n/a	1/14/2014 11:25 AM
7	Usually 1-6 during normal wet season, 2-3 feet during flood stages	1/8/2014 8:41 PM
8	checkbook flooded	1/8/2014 4:41 PM

Q8 What is the impact of this concern? Select all that apply.

Answered: 21 Skipped: 0



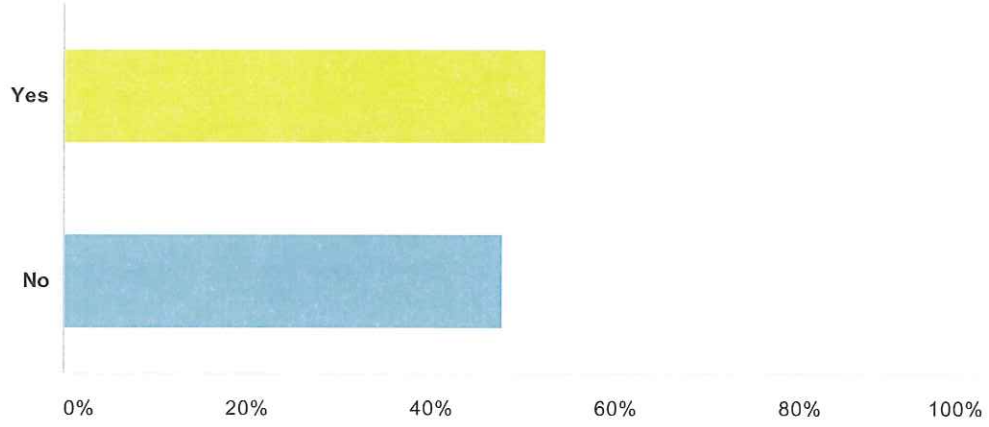
Answer Choices	Responses	
What is the impact?	**0%**	0
Water over roadway	**38.10%**	8
Water over sidewalk	**14.29%**	3
Impacting vehicles	**23.81%**	5
Impacting pedestrians	**19.05%**	4
Flooding yards	**57.14%**	12
Flooding homes	**19.05%**	4
Other	**42.86%**	9
Total Respondents: 21		

#	Other (please specify)	Date
1	I live 1/2 down the hill, the water runs under my house to get to the bottom of the hill.	1/16/2014 3:06 PM
2	Impact when it freezes	1/16/2014 10:38 AM

3	The drainage pond is privately owned and maintained. The debris from the city property AND the runoff should not go to the storm system on 278th PL NW since it goes to the privately owned pond. This debris decreases the life of the pond and will require residents to pay for servicing the pond and more frequent intervals.	1/16/2014 9:40 AM
4	Blocks both entrances to house	1/14/2014 10:19 PM
5	Inadiquit cit stormwater conveyance creating unnecessary need for retention ponds. No hookup available.	1/14/2014 2:32 PM
6	impact is to habitats	1/14/2014 11:25 AM
7	floods 5 to 6 backyards	1/13/2014 8:05 PM
8	Flooding foundation, bad smell, infections from water	1/13/2014 7:47 PM
9	it is flooding the field	1/13/2014 7:31 PM
10	cost	1/8/2014 4:41 PM

Q9 Could this be a safety concern?

Answered: 21 Skipped: 0



Answer Choices	Responses	
Yes	**52.38%**	11
No	**47.62%**	10
Total		**21**

#	If yes, please explain:	Date
1	water goes under garage floor to backyard, has come up around a metal pole to keep car from hitting gas furnace.	1/22/2014 11:08 AM
2	Swerving to miss the water - splashing on windshields obscuring vision - brakes	1/20/2014 8:32 PM
3	When it freezes it would be difficult to stop when you are going down to Pioneer Hwy.	1/16/2014 10:38 AM
4	Not good for foundation, water under my house can cause black mold	1/13/2014 8:05 PM
5	Periodically pump water with portable sump pump and would get hand infection after every pumping episode.	1/13/2014 7:47 PM
6	Cars frequently drive around the standing water or they hydroplane.	1/10/2014 3:06 PM
7	When storm drain fails water is up to 3 feet in street and Library parking lot. It isn't obvious to drivers. It is also a hazard to pedestrians since the storm drain is under water with damaged pavement. It is also a concern with contaminated water.	1/8/2014 8:41 PM
8	urge to kill	1/8/2014 4:41 PM
9	An elderly (87 y/o) resident lives here. Handicapped assistance is very difficult due to standing water in front of residence. Your attention to this matter is appreciated.	1/7/2014 11:49 AM
10	Trees fall down when the ground is saturated. We have lost several 50 year old trees that blow over when their feet are wet. It is a new and dangerous phenomena. (speeling is not my strong suit) My neighbor's basements have flooded. I have a crawl space. I have installed a sub pump. The crawl space used to be dry, unless the former owner did not tell the truth. That is not the case now. As I said elsewhere, 50 year old trees have died from the excessive water we are experiencing. I would imagine that the value of my property is going down, down, down. Want to buy it?	1/7/2014 9:36 AM

Q10 Do you have any other drainage/stormwater comments, or concerns?

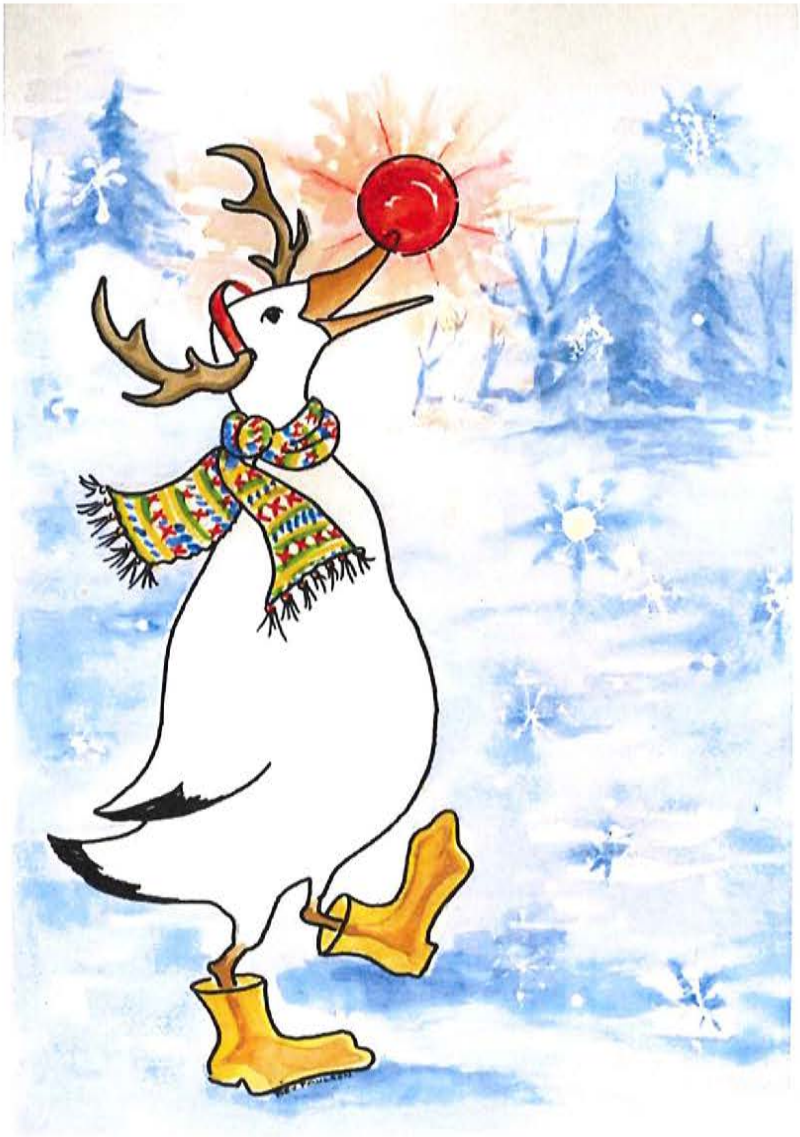
Answered: 17 Skipped: 4

#	Responses	Date
1	Ground is so waterlogged in spring in backyard on the north side area no one can mow lawn, mud is 4" to 5" deep. By the end of June it has dried out some.	1/22/2014 11:08 AM
2	None	1/22/2014 9:49 AM
3	The holding pond by my house is a breeding ground for mossquitos.	1/16/2014 3:06 PM
4	The City should take over maintenance and ownership of ALL drainage ponds in the city limits. This will ensure uniformity and proper maintenance. Storm water ponds are the weak link in the system- privately maintained by novice home owners. Modest fees to defer the cost of the maintenance of the pond could be incorporated into existing drainage fees. Housing Developments bring revenue to local business and strengthen the local economy. Support the Stanwood residents and take over the drainage ponds.	1/16/2014 9:40 AM
5	Our yard is a low spot in the neighborhood. Property has storm drain, but it is on the high side near street, so only during extensive flooding does the water drain out.	1/14/2014 10:19 PM
6	No	1/14/2014 2:32 PM
7	Use enviormental friendly. When spraying for weeds & blackberries. City killed alot more enviornment than intended.	1/14/2014 11:25 AM
8	No	1/13/2014 8:05 PM
9	The main issue is a failed water retention system at stanwood town center: I put yellow dye in their system and my land turned yellow.	1/13/2014 7:47 PM
10	Drain water from housing hope apts at 72nd & 276th should have been piped over to the storm drain on the east side of 72nd instead of into the ditch on west side	1/13/2014 7:31 PM
11	No	1/13/2014 7:15 PM
12	Snohomish County kept these ditches cleaned until they were annexed to the City of Stanwood. They told me they could still do it, but needed an inter-local agreement with the City first. In 2009 I talked to Andy Bullington numerous times regarding this problem, but nothing was ever done. It has been about 20 years since the ditch along 264th st has been cleaned.	1/13/2014 3:06 PM
13	No	1/10/2014 3:06 PM
14	The issue has increased steadily over the past 10 years and we have not been able to find a viable way to reduce the flooding to our property.	1/8/2014 8:41 PM
15	The GMA and/or Comprehensive Plan update(s) should not be used to demand a greater monthly payment from homeowners residing in neighborhoods that have already paid escalating storm/sewer charges over a period of decades and helped to retire many bonds in favor of the City. I believe the facilities already in place are more than adequate to serve the development base that they were designed for almost indefinitely with normal maintenance. Unless all of these facilities are suddenly failing and need to be replaced as a result of age/deterioration (rather than the impact of poorly funded growth) I would protest the imposition of additional long-term indebtedness on existing construction to be shared along with new development. In effect, it is starting the clock all over again and asking owners to pay again for that which they have already paid for in the past. In fact, the City has already implemented major increases in storm/sewer charges over the years that in my opinion represent an unwarranted burden on existing homeowners.	1/8/2014 4:41 PM
16	No	1/7/2014 11:49 AM

17	Two homes above me have flooded twice from this problem. The entire system has failed and it is no one's fault and apparently no one's concern. We are blessed with surface water from the entire subdivision. Just look at 86th street during and after rain and you will see the problem. It even runs across Pioneer Highway. Thanks for asking. What will be done about it? What can be done about it?	1/7/2014 9:36 AM

CITY OF STANWOOD
2014 BUDGET

City of Stanwood
2014 Budget Summary



Painting by Bev Paulson, local artist

CITY OF STANWOOD
2014 BUDGET

City of Stanwood
2014 Budget
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CITY OF STANWOOD
2014 BUDGET

DRAINAGE SUMMARY:

The City owns, operates and maintains the entire storm drainage system to include piping, approximately 1554 catch basin, detention ponds, ditches, Irvine Slough and the Irvine Slough pump station.

The City's practice of maintaining all detention ponds was called into question when an ownership search revealed 7 ponds were actually privately owned through HOA's or plat assessment. A subsequent meeting was set up with the people affected by this discovery and a plan is in the works to determine how and by whom maintenance will now be accomplished on these privately owned facilities.

Purpose of Drainage Utility

The purpose of the drainage utility operating fund is to promote quality of storm water in the city. The fund is used to maintain the City's storm water conveyance and treatment facilities and construct storm water capital projects.

A drainage utility is essentially a special assessment district set up to generate funding specifically for surface water management. Users within the district pay a drainage utility fee, and the revenue generated directly supports maintenance and upgrade of existing storm drainage systems; development of drainage plans, flood control measures, and the water-quality programs; administrative costs; and sometimes construction of major capital improvements. Unlike a surface water program that draws on the general tax fund or uses property taxes for revenue, the people who benefit are the ones who pay.

Surface water management within the City is governed by federal, state, regional, county and city laws including the Clean Water Act, Endangered Species Act, the Growth Management Act, Shoreline Management Act, State Environmental Policy Act, Stormwater Management Performance Standards and Puget Sound Water Quality Action Plan.

There are a number of state statutes that pertain either directly or indirectly to the City's authority to form a drainage utility. One of the more broad based statutes pertains to municipal utilities in general and states that a code city may provide utility service within and outside its city limits and this includes the exercise of all the powers to the extent authorized by law (RCW 35A.80.010).

2014 DRAINAGE OPERATING REVENUES:

The drainage utility fee is based on the relative contribution of increased surface and storm water runoff from a given parcel to the storm water system.

CITY OF STANWOOD
2014 BUDGET

The percentage of impervious surfaces on the parcel and the total parcel acreage is used to indicate the relative contribution of increased surface and storm water runoff from the parcel to the storm water system.

The relative contribution of increased storm water runoff from each parcel will determine that parcel's share of the drainage utility fee revenue needs.

The drainage utility fee revenue needs of the utility are based upon all or any part, as determined by the Council, of the cost of storm water services or to pay or secure the payment of all or any portion of any issue of general obligation or revenue bonds issued for such purpose.

Table 15 – Drainage Utility Revenues

Description	2011 Actual	2012 Actual	2013 Budget	2014 Budget
Beginning Balance	$ 215,900	$ 400,539	$ 578,866	$ 600,000
Revenues				
Charges for Services	$ 421,215	$ 441,596	$ 425,000	$ 425,000
Misc. Revenues	$ 668	$ 1,408	$ 1,300	$ 1,300
Total Revenues	$ 421,884	$ 443,004	$ 426,300	$ 426,300

2014 DRAINAGE OPERATING BUDGET:

Detention pond maintenance has been difficult to accomplish. The City has a combination of regular and seasonal employees to maintain the ponds during the summer months. The workload exceeds staffing levels. The 2014 budget includes funding for a part time seasonal employee.

The total 2014 proposed drainage operating budget, including non-operating expenditures such as machinery and equipment, is $365,080, which allows for $173,200 transfers-out to capital funds and a projected ending cash balance of $488,020.

CITY OF STANWOOD
2014 BUDGET

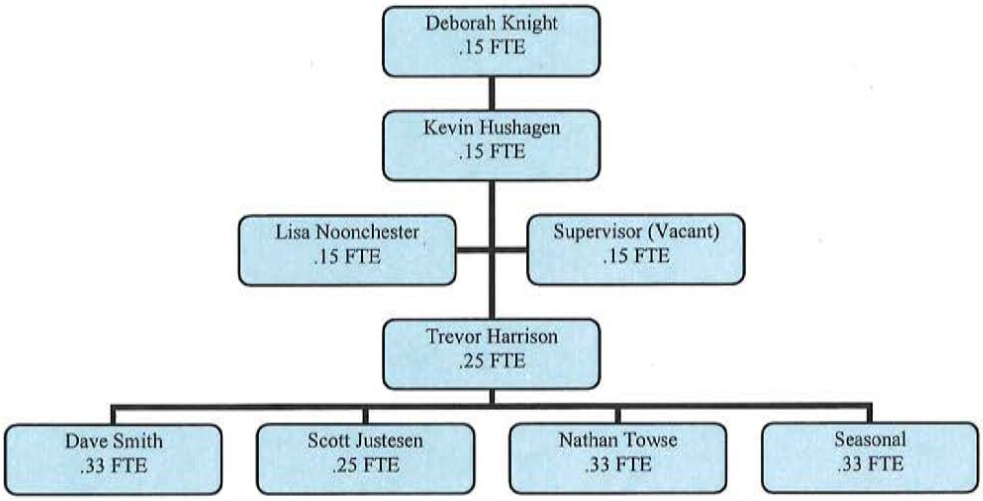
Table 16 – Drainage Utility Expenditures

Description	2011 Actual	2012 Actual	2013 Budget	2014 Budget
Operating Expenditures				
Salaries & Wages	68,053	67,477	96,400	121,520
Overtime	1,550	796	400	463
Social Security	5,325	5,222	7,500	9,332
Retirement	3,802	4,600	8,000	11,897
Medical Benefits	17,827	20,890	23,500	32,803
L & I	1,658	1,543	2,600	2,549
Unemployment Insurance	835	1,435	1,200	3,659
Supplies	1,056	1,716	2,500	4,000
Uniforms	700	745	1,200	1,200
Fuel	1,229	1,641	1,500	1,500
Small Equipment	0	0	400	1,000
Professional Services	14,927	56,416	42,500	42,500
Communications	2,449	2,364	3,000	3,000
Rentals	0	71	500	500
Insurance	36,805	32,898	30,600	30,600
Utilities	6,453	8,494	10,000	10,000
Repair/maintenance	1,631	172	4,500	4,500
B & O Tax	7,195	7,549	6,200	6,200
Meetings, Training & Travel	0	0	758	750
State Operating Permits	0	0	600	600
Interfund Payment For Servic	55,749	40,580	46,395	51,507
Advertising	0	67	0	0
Total Operating Expenditures	227,244	254,676	290,253	340,080
Non-Operating Expenditures				
Machinery & Equipment	0	0	0	25,000
Total Non-Operating Exp.	0	0	0	25,000
Total Expenditures	227,244	254,676	290,253	365,080
Less: Transfers-Out	-10,000	-10,000	-110,000	-173,200
Ending Cash Balance	400,539	578,866	604,913	488,020

CITY OF STANWOOD
2014 BUDGET

2014 Staffing Levels

The 2014 budget includes 1 new staff hired at the end of 2013. This is still minimal staffing to maintain Stanwood's drainage system. There are approximately 2.09 full-time equivalent (FTE) dedicated staff to this department. The staff in this department maintains drainage infrastructure including ponds ditches and Irvine Slough pump station.



2013 Drainage Accomplishments

- Met with HOA's and property owners regarding ownership of ponds
- Added drainage on 270th by Bank of America
- Added drainage on Florence road
- Brought ponds up to standards and turned over to select home owners
- Finished cleaning all catch basins
- Put out RFP's to develop stormwater comprehensive plan
- Received $300,000.00 grant for study of Irvine Slough

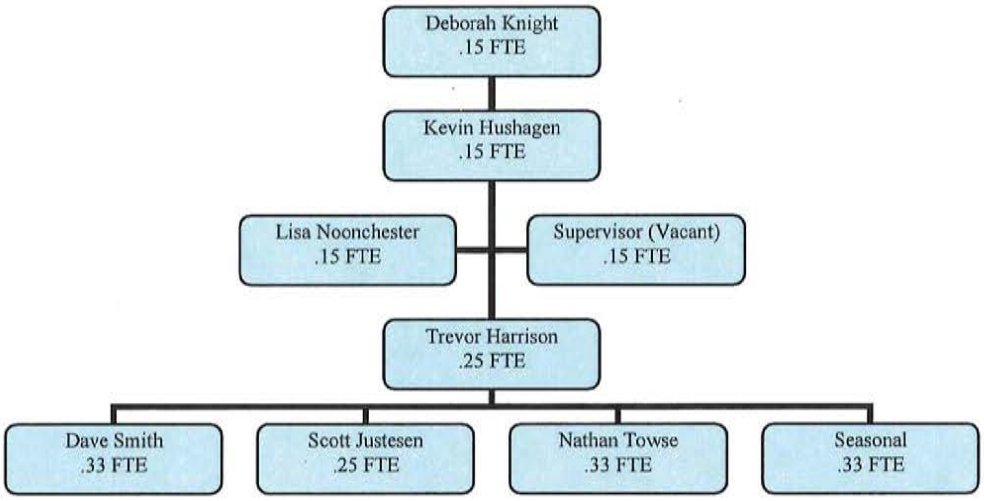
2014 Drainage Goals

- Continue working with home owners on pond maintenance and ownership
- Fix drainage on 85th
- Continue work to install berm on SR 532
- Conduct study on Irvine Slough
- Fix drainage on 270th

CITY OF STANWOOD
2014 BUDGET

2014 Staffing Levels

The 2014 budget includes 1 new staff hired at the end of 2013. This is still minimal staffing to maintain Stanwood's drainage system. There are approximately 2.09 full-time equivalent (FTE) dedicated staff to this department. The staff in this department maintains drainage infrastructure including ponds ditches and Irvine Slough pump station.



General Fund

The proposed 2014 general fund budget is $218,762 out of balance (i.e revenues less than expenditures) primarily due to the following:

1. Community development has requested a total of $259,000 in professional services, which represents a $194,500 increase over the prior year. The professional services budget includes: planning review ($60,000), plan checking ($35,000), city engineer ($25,000), on-call landscape architect ($5,000), comprehensive plan update ($120,000) and on-call inspector ($14,000).

   Another $50,600 of additional wages and benefits have been requested for a second part-time planner to handle the additional workload associated with the increase in buildings generated in 2013 and anticipated for next year.

   The city originally budgeted $86,500 based on the assumption of thirty (30) residential building permits. To date, the city has received $186,031 from sixty (60) residential permits. Including other permit and review fees, the 2013 budget has been revised upward to include a total increase of $156,000. The additional revenues will be used in 2014 to hire the additional professional services and staff to handle the increased work load associated with substantially higher permit activity.

2. The police protection contract, as proposed by the Snohomish County Sheriff, includes an increase of $70,923, from $1,407,373 to $1,478,296 per year (5% increase). The Sheriff previously proposed an increase of $109,741 (7.8%), however, through further negotiations an additional $38,818 reductions were made to the 2014 contract amount as follows:

• Averaging increases over 3 years	$29,514
• Records management	$ 4,103
• Outside training	$ 1,100
• 5% credit – records specialist	$ 4,101
Total	$38,818

3. This budget presented to the city council at this workshop includes a general fund deficit of $218,762. This amount is being offset of the approximate $225,000 additional building permits and related revenues that have resulted from the 60 building permits that were issued in 2013 (twice the 30 permits that were budgeted).

Revenue and Expenditure Assumptions

City staff have completed the revenue and expenditure assumptions for the 2014 general fund budget. Overall revenues remain flat. The city expects to collect $5,448,389 in general fund revenues in 2014, which is a $93,998 (1.8%) increase from the prior year.

On the positive side, property taxes will increase about $82,500. Most of this increase ($62,500) is due to the $18.7 million in new construction added to the tax rolls last year, while the remaining $20,000 is the proposed 1% increase as allowed by law.

Actual sales tax for 2013 is expected to come in at about $1,030,000, which is $105,000 more than budget, largely due to strong construction sales. The 2014 budgeted sales tax is $1,030,000 (same as 2013 projected) to reflect continued slow growth in the economy next year.

Table 1 - General Fund Revenue Summary

Description	2012 Actual	2013 Budget	2014 Proposed	Percent of Budget	Comment
Operating Reserve	1,685,980	1,860,614	1,600,000	29%	mimimum of 16.7%, or $909k per financial policy
Taxes (property, EMS, sales and utility)	4,178,348	4,213,700	4,438,400	81%	Ppty taxes up $82k and sales taxes up $105k for new construction
Licenses and Permits	252,698	293,200	211,120	4%	Farmers Mkt grant closed in 2013 ($53,876 diff); estimated 30 res bldg permits
State Revenues	246,650	226,624	229,730	4%	
Charges for Service	506,441	531,417	522,789	10%	
Fines and Forfeitures	36,004	44,500	40,350	1%	
Misc. Revenues	8,929	5,950	6,000	0%	
Transfers-In	-	39,000	-	0%	to reimburse general fund for TBD election and insurance costs
Total Revenues	5,229,071	5,354,391	5,448,389	100%	
Total Resources	6,915,051	7,215,005	7,048,389		

General Fund Revenues

- Property tax revenues are projected to increase by $82,500 (4.2%). This is primarily due to the $18.7 million new construction that was recently added to the tax rolls, which generates an additional $62,500 in property tax revenues. The remaining

$20,000 increase assumes council approval of the 1% increase as allowed by law. Any new construction in 2014 will be credited to the city in 2015. Any property sales will increase the city's Real Estate Excise Tax (REET) collection. REET proceeds are used to support capital projects and street operations.

- The EMS levy budget proposal will increase by $24,300 due to the 8% increase in assessed valuation (AV), which will maintain the current $0.50 per $1,000 levy rate (the statutory limit). The levy is calculated at $320,300 ($640,600,000 AV X $0.50 / $1,000 = $320,300).

- Sales tax for 2013 was budgeted very conservatively at $925,000. For the first nine months of this year, sales tax revenues are $777,627, which is up $81,181 (11.7%) from the first nine months of 2012. Of the $81,181 increase in sales tax, $42,879 (53%) comes from construction sales tax, while the remaining $38,302 (47%) comes from non-construction. At the current rate, sales tax revenues for 2013 should be about $1,030,000 ($905,000 + $125,000 construction). 2014 sales tax revenues are conservatively projected to be about the same as 2013.

- Electric utility tax revenues are expected to increase $8,000 (2.7%) based on the PUD overall 2.7% rate increase that became effective on October 1, 2013.

- Water/sewer/drainage utility tax revenues are anticipated to increase by $9,300 based on the proposed 5% increase in water rates and 3.5% increase in sewer rates for 2014.

- Building permit revenues continue to be a big unknown factor in next year's budget. This year the city so far has issued sixty (60) residential building permits for $164,086. The city budgeted just thirty (30) permits for $87,000, so the city has exceeded its permit revenues to date by $77,000. For 2014, the city has assumed another thirty (30) residential building permits as a conservative estimate. The city needs to carefully match building permit revenues and expenditures; the current budget proposal uses an additional $156,000 in unanticipated 2013 building-related revenues (identified in the recent 2013 budget amendment) to offset planned increases in the 2014 community development budget.

The "5 Year Budget Comparison" report (Attachment B) provides a line-item comparison between 2010 and 2014. The "comments" column on the far right gives details on the assumptions used to develop the draft budget.

Table 2 - General Fund Expenditure Summary

Description	2012 Actual	2013 Budget	2014 Proposed	Percent of Budget	Comment
Clerk and City Council	258,934	264,485	143,492	3%	Transferred Admin II position to Admin Dept
Judicial	20,628	45,000	30,000	1%	Reduced by $15k (low usage)
Mayor	18,604	21,900	23,012	0%	$100/mo increase per salary commission recommendation
Administration	489,258	508,300	619,856	11%	Includes Admin II and $30k for 2-year audit
Legal	83,456	102,000	80,000	1%	Includes $10k for litigation
Buildings and Grounds	89,509	139,700	124,943	2%	Includes 0.80 FTE staff
General Gov't Services	68,263	63,640	68,764	1%	
Law Enforcement	1,663,313	2,087,644	1,796,866	32%	New 5-year contract w/ Sheriff. Annual contract increased $70,923 (5%) over last year.
Fire Control	1,247,340	1,279,400	1,290,480	23%	No contract increase due to flat assessed values since 2011
Jail Costs	39,814	66,000	66,000	1%	Kept the same (low usage)
Emergency Services	39,066	6,726	7,129	0%	Sno Co DEM contract
Ambulance	77,500	-	-	0%	Now included in fire contract
Community Development	469,541	487,845	783,133	14%	Includes $120k comp plan update and $51k for second PT planner
Substance Abuse	1,621	1,000	1,000	0%	
Library	243,286	266,430	301,200	5%	Contract increase due to 8% increase in assessed value
Parks	103,067	153,550	195,939	3%	1.61 FTE staff + 973 hours seasonal
Transfers / Misc	141,238	159,596	135,337	2%	
Total Expenditures	5,054,438	5,653,216	5,667,151	100%	

General Fund Expenditures

Salaries and benefits

- **Teamster's Contract COLA.** The Teamsters' contracts and the 2014 budget proposal provides for a 2% cost of living adjustment (COLA) for represented employees.

- **Non-Represented Employees.** On January 1st of each year, full-time, non-represented employees may, in addition to contract adjustments, receive an annual salary increase based on performance as determined by the mayor. The total amount of performance increases shall not exceed the performance pool, which is calculated by the finance director and authorized by the city council as a percentage share of annual full-time, non-represented salaries, which is assumed to be 3% (same as last year).

- **Benefits.** AWC has announced no premium increases estimates for 2014 based on cost savings due to the fact that AWC will become self-insured effective January 1, 2014. Based on average annual increases of 10% that the city has seen in the past, this saves the city about $50,000 per year in benefit premiums for its employees.

- **Part-time Planner.** In 2012 the city hired a contract planner for $60,000 per year to help with the additional workload in the community development department as a result of increased building permit activity.

  This position was converted to a part-time staff position (22.5 hours per week) in 2013 at a total staffing cost of about $50,000. In 2014, the budget provides for a second part-time planner for another $50,000, again to assist with the increased workload due to building permit activity.

  So for this year the city has received sixty (60) residential building permits, which is twice the budgeted amount of thirty (30).

  The additional one-time expenditures in community development for 2014 will be paid for out of one-time permitting revenues received in 2013 and 2014.

  The goal is to ensure the city provides outstanding customer service as the economy continues to recover.

- **Position Reclassifications.** The city continues to review its current job classifications to ensure that they match up with the duties that city employees are currently performing. Two of the positions that were identified for reclassification in 2014 were the police records clerk and the public works administrative assistant. Under the 2014 budget proposal, both positions would be reclassified as admin II in order to better match up duties and positions. This move would increase city payroll by about $6,400.

- **Finance Department Reorganization.** Last year the city reorganized the city clerk department. By consolidating clerk duties between the finance director and the deputy clerk II, the city reduced 0.50 FTE staff and saved about $40,000. The front office position, formerly held by Julie Johnson, had been classified at a deputy clerk I, which was a holdover from when she performed those duties.

  When the position is re-filled, it will be classified as an admin II and coded to the administration department budget (instead of the clerk department budget) to more accurately reflect the actual duties of the position.

  Staff anticipates that this position will be filled with a permanent full-time employee by December 31, 2013.

- **Contracts for Service.** The city contracts for library, police and fire/EMS services. While revenues have declined over the past several years and

property assessed values have fallen, the city is locked in by contract to pay higher rates for contract services.

- **Library contract.** Council will decide next year (2014) whether to hold a library annexation vote in 2015, For 2014, the city will continue to contract with Sno-Isle until such time that a library annexation becomes effective (2016 at the earliest).

  The library contract with Sno-Isle will cost the city $289,200, plus the city will pay utility costs of about $12,000, for a total 2014 library budget of $301,200.

- **Police contract.** The police contract will expire December 31, 2013. The city and the Sheriff have tentatively agreed on a 5% increase for 2014, which will be presented for council approval. The new contract will be for five years (2014-2018).

  The current proposal by the Sheriff is for an annual increase of $70,923 (5%), from $1,407,373 to $1,478,296, primarily due to personnel costs, which makes up the majority of their budget.

  After the initial 5% in 2014, the proposed contact would increase by 5% in 2015 and 2016.

- **Fire contract.** The city agreed to pay $2.00 per $1,000 assessed value, with 2011 assessed valuation established as a contract floor. In 2011, when the contract was established, the city's assessed valuation was $$639,969,397.

  Based on the contact formula of $2 per $1,000 /AV, the original 2012 annual contract amount was set at $1,279,939 ($639,969,397 X $2 / $1,000 = $1,279,939).

  In 2013, even though the city's assessed value decreased to $591,926,022, the fire contract remained at the 2012 amount ($1,279,939) due to the "floor provision" in the contract (i.e. the contract amount cannot fall below the 2012 level).

  Preliminary estimates from the Snohomish County Assessor reflect that the city's assessed valuation for 2014 will increase back to 2012 levels (about $639,000,000).

  Because this valuation is still below 2012, albeit slightly, the annual fire contract once again will remain flat at $1,279,939.

  Note that in future years, as the assessed valuation of the city increases, the fire contract will increase accordingly (at the rate of $2 per $1,000 / AV).

- **Transportation Benefit District.** The city will receive about $200,000 per year in sales tax revenues to pay for much-needed street projects, including:
  - 270th between Florence Road and 88th
  - 92nd from the bowling alley to 276th

- **Economic Development.** The mayor's budget provides for a $25,000 increase in economic development, from $7,500 to $32,500. This amount currently includes:
  - $15,000 support generated from the $15/year business license increase
  - $7,000 marketing materials
  - $6,000 incentives
  - $3,000 holiday promotion
  - $1,500 small grant program

CAPITAL BUDGET

Adopting the annual capital improvement budget is one of the most important actions the city council takes during the budget process. It signals to the community the city's priorities and can either encourage or discourage private investment in different areas of the city.

While the city council adopts a capital budget each year, the planning and actual expenditure of funds for capital projects generally occurs over a period of years. The city's Comprehensive Plan, Capital Facilities Plan, Transportation Improvement Plan, Water System Plan, General Sewer Plan, Park and Recreation Open Space Plan and

Stormwater Management Plan identify the capital improvements needed to serve existing residents and maintain levels of service as new residents and businesses move into the city. The city council also adopts a set of community improvement goals as a part of the annual budget process. The Mayor's Recommended Capital Budget meets the following council goals:

2014 Council Budget Goals

Maintain existing city facilities	**$3,382,871**	
• City Hall and Police Department Renovations		$1,066,671
• Street maintenance using TBD Funds		$148,200
• Complete Water/Sewer Bond Improvement Projects		$1,788,000
• Restore water service from Hatt Slough		$255,000
• Heritage Park and Church Creek Renovations		$60,000
• Sidewalk and Street Repair Projects		$65,000
Restore community access to Stillaguamish River	**$2,560,500**	
• Ovenell and Hamilton property acquisitions		$2,490,500
• Master plan		$70,000
Protect the Community from Flooding	**$710,000**	
• SR532 Berm/Bike and Pedestrian Path		$100,000
• Irvine Slough Pump Station Restoration		$245,000
• Irvine Slough Conveyance Study		$300,000
• Drainage Improvement Projects		$65,000
Develop Bike and Pedestrian Trail System	**$250,000**	
• 68th Street Safe Routes to Schools		$250,000

Support Economic Development **$160,000**

- Downtown park $50,000
- Viking Way and 90th Street Grid Roads $110,000

The mayor and city council work together to prioritize capital improvements within existing city resources. When additional resources are needed to fund capital projects, the mayor and council evaluate whether to raise additional revenues by increasing user fees, reducing expenses or reprioritizing the capital budget.

The city council is currently considering proposals to raise water and sewer rates in part to generate sufficient revenues to fund future capital improvements. The current rate structure is not sufficient to fund both operating and capital expenses.

The water and sewer operating budgets include transfers to the capital budgets based on the assumption the proposed rate increases will be approved. A decision not to approve a utility rate increase or a reduced increase will affect a number and type of future capital improvements.

What is the Capital Budget?

The City of Stanwood defines capital improvements as investments in infrastructure costing more than $5,000 with a useful life of more than one year.

This may include everything from major renovations in Heritage Park to new road construction or road reconstruction. The capital program is generally financed by sources of revenue dedicated to capital improvements including Real Estate Excise Taxes, Impact Fees, Plant Investment fees and borrowing.

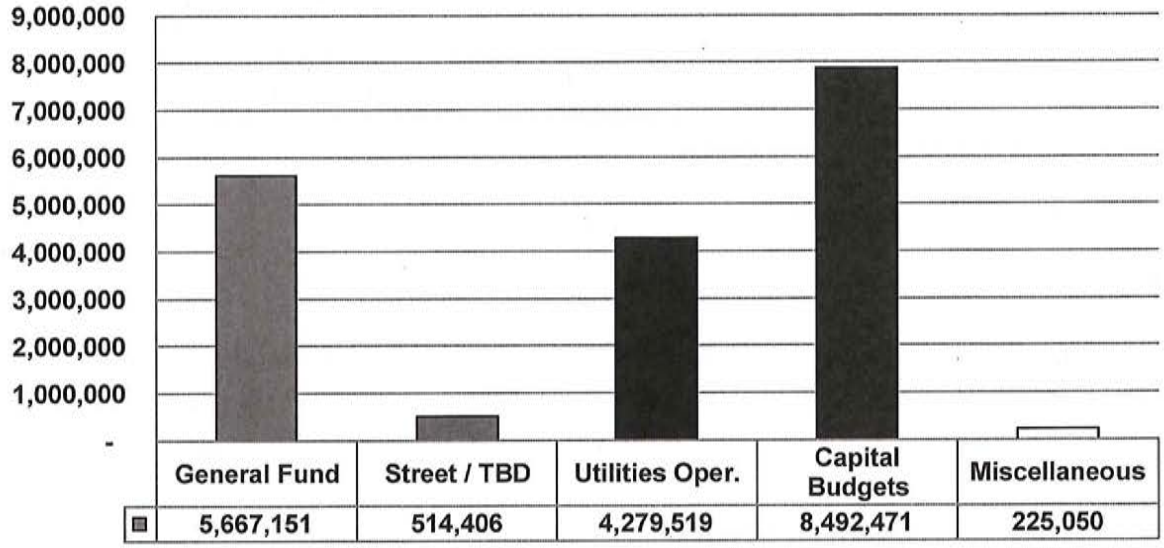
The Capital Budget differs from the city's Operating Budgets. The operating budgets cover the day-to-day operations and are financed by property, sales and utility taxes, and fees for service.

In 2014, over 60% of the capital budget is funded with city revenue, and the rest is supported by state and federal grants. City revenues include funds borrowed by issuing bonds.

The benefit of issuing bonds to pay for capital projects is to spread the cost of facilities over the life of the project and ensure both current and future residents who benefit from the project share equally in the cost of the project.
The city is funding 4 projects in 2014 totaling approximately $2,100,000 from the remaining revenues in the 2011 Water/Sewer Revenue bonds. When resources from the bonds are spent, the principal and interest payments on the 2011 Water and Sewer Revenue Bonds ($2.88 million) will be expensed from the water operating fund (Fund 421).

The 2014 water operating budget proposes early payoff of two bonds using reserves in order to reduce the on-going expense of annual debt service payments and free up funds for current expenses and future capital projects.

2014 Budget Summary



Revenue Sources

Revenues to support the capital budget come from real estate excise taxes, plant investment fees, impact fees related to new growth, bond proceeds, grants and loans.

Revenue sources for capital projects tend to be restricted to specific uses with the exception of Real Estate Excise Tax (REET 1 and REET2) which can be used for capital improvements listed in the city's adopted capital facilities plan.

The following revenue sources and expenditure's table summarizes the 2014 capital budget. Additional detail is available in Attachment A which lists the proposed city projects. Attachment B is the capital budget reports from the city's financial software system.

Table 17 – 2014 Capital Budget

2014 Revenue Sources and Expenditures (all amounts x $1,000)							
Funding Sources	**Streets (103)**	**Parks (104)**	**Bld Imp (110)**	**Sewer (403)**	**Drainage (411)**	**Water (422)**	**2014 Total**
Beginning Fund	$150	$100	$860	$1,700	$350	$2,000	**$5,160**

Grants	$313	$2,531	$0	$0	$300	$0	**$3,144**
Transfers	$50	$139	$318	$440	$189	$351	**$1,487**
TBD	$148						**$148**
Interest	$1	$0	$3	$6	$1	$2	**$13**
Total Revenues	**$662**	**$2,770**	**$1,181**	**$2,146**	**$840**	**$2,353**	**$9,952**
Expenditures	$630	$2,670	$1,067	$1,091	$750	$2,285	**$8,493**
Ending Fund	**$32**	**$100**	**$114**	**$1,055**	**$90**	**$68**	**$1,459**

Real Estate Excise Taxes (REET 1 and REET 2)

Description of Real Estate Excise Taxes

The real estate excise tax is levied on all sales of real estate, measured by the full selling price. The state levies this tax at the rate of 1.28 percent. A locally-imposed tax is also authorized. All cities may levy a quarter percent tax (referred to as "the first quarter percent of the real estate excise tax" or "REET 1").

Cities that are fully planning under GMA are given the authority to levy a second quarter percent tax ("REET 2").

How Can REET Proceeds Be Spent?

Cities with a Population of 5,000 or More That Fully Are Planning Under GMA (this applies to the City of Stanwood). These jurisdictions must spend the first quarter percent (REET 1) of their real estate excise tax receipts solely on capital projects that are listed in the capital facilities plan element of their comprehensive plan.

The second quarter percent (REET 2) may only be levied by cities that are required to or choose to fully plan under the Growth Management Act. All cities that levy this tax face the same provisions, whether their population is greater or less than 5,000.

In 2011 the state legislature expanded, for a limited period of time, the uses of REET 1 by amending RCW 82.46.010, and the uses of REET 2 by amending RCW 82.46.035, so that both REET 1 and REET 2 may now be used for a portion of operations and maintenance of existing capital projects.

Assumptions – 2014 Real Estate Excise Taxes

For 2013, staff projected about $80,000 in REET 1 revenues and another $80,000 REET 2 revenues ($160,000 total). It now appears that actual 2014 REET revenues will come in pretty close to projections, based on about $32 million in gross sales ($32

million X .0025 = $80,000). Based on an assumption of slow and steady growth in the economy for 2014, staff is projecting that the city will receive the same amount of REET revenues in 2014 (i.e. $80,000 apiece, for a total of $160,000).

Revenues and Transfers – 2014 Real Estate Excise Taxes

The 2014 proposed budget includes transfers from REET funds to support new and existing capital projects as follows:

Table 18 - Summary of REET 1 Fund Activity (Fund 120)

Description	2012 Actual	2013 Budget	2014 Proposed
Beginning Cash	624,051	723,479	660,000
REET 1 Revenues	100,663	80,000	80,000
Misc Revenues	1,901	2,000	2,000
Total Revenues	102,565	82,000	82,000
Transfer to Park Improve. Fund	-	120,000	120,000
Transfer to Bldg. Improve. Fund	-	-	318,000
Transfer to GO Bond Fund	3,137	3,021	-
Transfer to Street Fund	-	22,150	-
Total Transfers	3,137	145,171	438,000
Ending Cash	723,479	660,308	304,000

Table 19 - Summary of REET 2 Fund Activity (Fund 121)

Description	2012 Actual	2013 Budget	2014 Proposed
Beginning Cash	609,124	501,852	450,000
REET 2 Revenues	100,663	80,000	80,000
Misc Revenues	1,431	1,500	1,500
Transfer-In from Conting. Fund	-	102,300	
Total Revenues	102,094	183,800	81,500
Debt Service - 800 Mhz	18,729	168,561	-
Transfer to GO Bond Fund	3,137	3,021	-
Transfer to Street Fund	187,500	100,000	116,000
Total Transfers	209,366	271,582	116,000
Ending Cash	501,852	414,070	415,500

Plant Investment Fees

Description of Plant Investment Fees

Plant investment fees are charged to recover an equitable share of the costs of water, sewer and drainage facilities from those properties within the utility service areas which, as a part of their development and use, create needs for those facilities. Plant investment fees were designed and calculated to be of such amount as will eventually create reasonable reserves to pay the public's fair share of basic and essential service facilities as the need arises.

The city has determined that the capital cost of the city's current and future water system, including pumps, wells, distribution lines, reservoirs and rights-of-way is $43,820,345. The capital cost of such system has been borne by the city and its water system users. Such water system will be utilized by newly connecting properties, and the capital cost, as applied to buildings presently served, is $6,122 per each three-quarter-inch water meter.

In order to recover capital costs of water system improvements in the Cedarhome area ($2,732,000), additional water plant fees are charged as follows:

The city has determined that the capital cost of the city's current and future sewer system, including pumps, collection pipelines, sewer treatment plant, and rights-of-way, is $26,293,050. The capital cost of such system has been borne by the city and its sewer system users. Such sewer system will be utilized by newly connecting properties

and the capital cost, as applied to buildings presently served, is $6,476 per each three-quarter-inch water meter.

The city has determined that the capital cost of the city's drainage system, including pumps, collection pipelines and rights-of-way, is $3,270,401. The capital cost of such system has been borne by the city and its drainage system users. Such drainage system will be utilized by newly developed properties, and the capital cost, as applied to buildings presently served, is $665.00 per each equivalent unit.

Currently the city charges plant investment fees as follows:

Table 20 – Summary of Plant Investment Fees

Service Connection Size	Equivalent Connection	Water Plant Inv. Charge	Cedar Home Plant Inv. Charge	Sewer Plant Inv. Charge
Up to 3/4"	1.00	$5,280	$2,570	$6,476
1"	1.67	$8,818	$4,292	$10,815
1-1/2"	3.33	$17,584	$8,558	$21,565
2"	5.33	$28,144	$13,698	$34,517
3"	10.00	$56,342	$25,700	$64,760
4"	16.67	$88,024	$42,842	$107,955
6"	33.33	$175,995	$85,658	$215,845
8"	53.33	$281,603	$137,058	$137,058

Assumptions Plant Investment Fees

Presented below is plant investment revenue data since 2011. Note that year-to-date 2013 plant investment fees are about twice as much as 2013 budget. This is due to the fact that year-to-date residential housing permits are more than double the original thirty (30) permits that were projected.

For 2014, staff continues to conservatively project thirty (30) residential building permits. Of course, if actual permits (and corresponding plant investment fee revenues) come in higher than expected, budget amounts can always be adjusted upward through the budget amendment process.

Table 21 – Five Year Comparison of Plant Investment Fees

Description	2011 Actual	2012 Actual	2013 Actual YTD	2013 Budget	2014 Budget
Sewer PIF	90,776	278,356	414,399	195,000	195,000
Drainage PIF	10,755	28,795	42,625	20,000	20,000
Water PIF	69,562	226,198	338,520	158,400	158,400
Water PIF - Cedarhome	30,840	110,510	164,480	77,100	77,100
Total Plant Invest Fees	201,933	643,859	960,024	450,500	450,500

Revenues and Transfers – 2014 Plant Investment Fees

The 2014 proposed budget includes transfers from plant investment fee funds to support new and existing capital projects as follows:

Table 22- Summary of Sewer Plant Investment Fee Activity (Fund 405)

Description	2012 Actual	2013 Budget	2014 Proposed
Beginning Cash	457,920	537,445	750,000
Plant Investment Fees	278,356	195,000	195,000
Misc Revenues	1,169	1,100	1,100
Total Revenues	279,525	196,100	196,100
Transfer to Sewer Const. Fund	200,000	194,280	194,280
Total Transfers	200,000	194,280	194,280
Ending Cash	537,445	539,265	751,820

Table 23 - Summary of Drainage Plant Investment Fee Activity (Fund 412)

Description	2012 Actual	2013 Budget	2014 Proposed
Beginning Cash	48,322	77,269	100,000
Plant Investment Fees	28,795	20,000	20,000
Misc Revenues	153	200	200
Total Revenues	28,948	20,200	20,200
Transfer to Drainage Const. Fund	-	19,950	19,950
Total Transfers	-	19,950	19,950
Ending Cash	77,269	77,519	100,250

Table 24 - Summary of Water Plant Investment Fee Activity (Fund 424)

Description	2012 Actual	2013 Budget	2014 Proposed
Beginning Cash	10,384	236,735	400,000
Plant Investment Fees	226,198	158,400	158,400
Misc Revenues	153	500	500
Total Revenues	226,351	158,900	158,900
Transfer to Water Const. Fund	-	158,400	158,400
Total Transfers	-	158,400	158,400
Ending Cash	236,735	237,235	400,500

Table 25 - Summary of Water PIF - Cedarhome (Fund 423)

Description	2012 Actual	2013 Budget	2014 Proposed
Beginning Cash	48	110,608	275,000
Plant Investment Fees	110,510	77,100	77,100
Misc Revenues	49	300	300
Total Revenues	110,559	77,400	77,400
Transfer to Water (Debt Svc.)	-	-	139,519
Total Transfers	-	-	139,519
Ending Cash	110,608	188,008	212,881

Impact Fees (Traffic, Park and Fire)

Description of Impact Fees

New residential and nonresidential development causes increased demands on public facilities, including streets, roads, parks, open space, recreational facilities, fire facilities and schools. To the extent that new development places demands on the public facility infrastructure, impact fees are imposed to shift a proportionate share of the cost of such new facilities from the public at large to the developments actually creating the demand.

Traffic Impact Fees

Transportation impact fees are imposed upon all new developments that generate new additional traffic within the city based on the estimated number of additional trips generated.

Traffic impact fees are paid by new development to mitigate the impacts of new development on the city's existing transportation network. Impact fees cannot be used for operating expenses.

Based on planned development for 2014, Street Impact Fee revenue is budgeted at $66,500 which is based on the current transportation impact fee rate of $2,216.12 per single family unit ($231.57 per trip). The city expects to issue permits for thirty (30) more single-family residential units in 2014. In addition, interest income is projected to be $1,500.

In 2014, $50,000 is budgeted to be transferred to Fund 103, Street Construction the Viking Way project.

Table 26 - Summary of Traffic Impact Fee Activity (Fund 102)

Description	2012 Actual	2013 Budget	2014 Proposed
Beginning Cash	433,775	613,705	750,000
Traffic Impact Fees	101,740	66,500	66,500
Grant Revenues	256,375	-	-
Misc Revenues	1,445	1,500	1,500
Total Revenues	359,560	68,000	68,000
Capital Projects / Transfers	179,631	3,800	50,000
Total Transfers	179,631	3,800	50,000
Ending Cash	613,705	677,905	768,000

Park Impact Fees

Park impact fees are imposed upon all new developments that generate new additional demand on city park facilities.

The park improvement fund accounts for revenues (including park impact fees) and expenditures associated with city park capital improvements. As of September 30, 2013 this fund had a balance of $152,642.

Per the Impact Fee revenue schedule, 2014 park impact fees are budgeted at approximately $19,300 which is based on the current park impact fee of $640.80 per equivalent residential unit (ERU) times an estimated thirty single-family residential permits in 2014.

Table 27 - Summary of Park Impact Fee Activity (Fund 104)

Description	2012 Actual	2013 Budget	2014 Proposed
Beginning Cash	89,488	98,687	100,000
Park Impact Fees	27,554	19,300	19,300
Grant Revenues	-	50,000	2,490,500
Misc Revenues	242	250	40,250
Transfers-In		120,000	120,000
Total Revenues	27,797	189,550	2,670,050
Capital Projects / Transfers	18,598	207,909	2,670,500
Total Transfers	18,598	207,909	2,670,500
Ending Cash	98,687	80,328	99,550

Fire Impact Fees

Fire impact fees are imposed upon all new developments that generate new additional demand on fire protection services.

The fire impact fund accounts for revenues (including fire impact fees) and expenditures associated with fire capital improvements and equipment. As of September 30, 2013 this fund had a balance of $25,180.

Per the Impact Fee revenue schedule, 2014 fire impact fees are budgeted at approximately $6,000 which is based on the current fire impact fee of $200.00 per equivalent residential unit (ERU) times an estimated thirty (30) single-family residential units.

Table 28 - Summary of Fire Impact Fee Activity (Fund 105)

Description	2012 Actual	2013 Budget	2014 Proposed
Beginning Cash	2,886	12,184	25,000
Fire Impact Fees	9,286	6,000	6,000
Misc Revenues	12	10	10
Total Revenues	9,298	6,010	6,010
Machinery & Equipment	-	-	25,000
Total Transfers	-	-	25,000
Ending Cash	12,184	18,194	6,010

Bond Proceeds

Description of Bond Proceeds

In 2011 the city issued $2,880,000 revenue bonds to finance certain water utility capital improvements as identified in the capital improvement plan. Bond proceeds of $2,734,682 (net of issuance costs) were deposited into the water construction fund, and have been expended as follows:

Table 29 - Summary of 2011 Revenue Bond Activity

Dscription	2011 Actual	2012 Actual	2013 Projected	2014 Proposed	12/31/2014 Total Proj.
PZ-1 297 Zone to 400 Zone	98,951	376,214	604	-	475,769
Bryant Well #3	-	-	53,049	-	53,049
F9 Hatt Slough Collection	482	-	100,482	-	100,965
Cedar Home Well	-	-	152,000	-	152,000
PZ-1 125 & 242 to 245	-	-	100,000	-	100,000
Bryant Well #2 Replacement	-	-	-	700,000	700,000
PZ-2	-	-	-	740,000	740,000
F11 Hatt Slough Rehab	-	-	-	255,000	255,000
					-
Totals	99,434	376,214	406,136	1,695,000	2,576,784
Revenue Bond Proceeds					(2,734,682)
Balance Remaining					157,898

As the table shows, all but $157,898 of the original bond proceeds are projected to be expended by the end of 2014.

Grants

The city expects to receive $3,143,000 in grant revenues as follows:

Table 30 - Budgeted Grant Revenues and Uses

Grant Description	Fund	2014 Budget	Project Description
WSDOT ARRA Grant	103	4,500	Wetland Mitigation
WSDOT SR 532 Beautification	103	58,000	WSDOT SR 532 Beautification
WSDOT Safe Routes	103	67,000	68th St Sidewalk
Dept of Commerce SRTS	103	183,000	68th St Sidewalk
Conservation Futures	104	156,000	Hamilton Property Purchase
Conservation Futures	104	2,334,500	Ovenell Property Purchase
Skagit County Soccer Assn	104	40,000	
Dept of Ecology	411	300,000	Irvine Slough Erosion Control
Totals		3,143,000	

City of Stanwood
Stormwater Comprehensive Plan
APPENDIX A.16
DRAINAGE CONCERNS SUMMARY

ID	Source	Address	Original Problem Location From Public Survey	Problem Description 1	Problem Description 2	Problem Description 3	Problem Description 4	Categorization of Problem 1	Categorization of Problem 2	Categorization of Problem 3	Categorization of Problem 4	Frequency of Problem 1	Frequency of Problem 2	Last Occurrence of Problem	Duration of Problem 1	Duration of Problem 2
1	City Staff	76th Dr NW & 272nd St NW		Backyards on 76th Dr. NW Flood from Water runoff from 272nd St NW. The water from the street on 272nd runs into backyard and forms a puddle; house on corner of 272nd and 76th.				Flooding								
2	City Staff	76th Dr NW & 276th St NW		Backyards on 76th Dr NW Flood During Heavy Rain. There are three to four houses that get flooded out in their backyards in heavy rain due to a hill from the school behind their house homeowners say it used to drain.				Flooding								
3	City Staff	268th St NW & Floe Rd		The dike is low in this area and needs to be built up, there are sand bags in place now. On a really high tide the water will spill over in this area next to the smoke stack need to build dike up.				Flooding								
4	City Staff	96th NW & 271 St NW		House on 96th next to the library, the yard floods during a flood event. When we have a flood the water in this area will not drain because Irvine Slough is backed up, so 2 houses next to library have their yards flooded.				Flooding								
5	City Staff	Lovers Rd/276th St NW		Lovers Lane 276th water ponds up on side of roadway across from Heritage Park on the north side of the road. Huge puddle forms into the roadway when it rains needs a catch basin.				Flooding								
6	City Staff	Pioneer Hwy & 85th Dr NW		Water runoff from the street in heavy rain events washes the shoulder of the roadway down the hill on 85th Dr NW into Pioneer Hwy. Water rushes the hill and washes out the shoulder of the road when it rains, need to add 1 or 2 catch basins.				Erosion								
17	City Staff	92nd Ave NW & 268th St NW		Seven Tubes - 1 gate is completely gone and needs to be replaced. All other 6 tubes need to be replaced due to hold in pipes and gates are old. We have seven flood gates, the hippes are old and have holes in them. One pipe is missing a flood gate and all gates are old.				Failed Infrastructure								
18	City Staff	90th Ave NW & 271 St NW		270th St drain pipe under roadway is collapsed. Drainage pipe that runs from a catch basin on the north to the south of 270th is collapsed under the roadway.				Failed Infrastructure								
19	City Staff	Lund Hill Rd & Nordic Way		Pioneer Hills south pond control structure is broke and is need of repair. Control structure in the pond has broken parts, the outlet pipe is separated, pipe supports are broken.				Failed Infrastructure								
20	NHC	268th ST NW & 1-4th Dr NW		Outfall from this Douglas Creek Outfall is limited.				Flooding				Every 1-2 Years		1/1/2014	Days To Weeks	
21	NHC	102nd Ave NW & 268th St NW		Irvine Slough pump station capacity is limited				Flooding				Every 1-2 Years		4/1/2013	Days To Weeks	
22	NHC	102nd Ave NW & 268th St NW		Risk of Flooding at WWTP				Flooding				Every 10-20 years		2009 or later	Days	
23	NHC	102nd Ave NW & 268th St NW		The sanitary sewer routes stormwater runoff from storms to WWTP.				Failed Infrastructure				Ongoing		Ongoing	Hours To Days	
24	NHC	92nd Ave NW & 268th St NW		Larsen Dam restricts drainage of flow from east side of 92nd Ave following Stillaguamish River floods				Flooding				Every 5 Years		2009 or later	Days	
25	NHC	88th Ave NW & 268th ST NW		Flow from Stillaguamish River can cross SR 532 and flood downtown Stanwood.				Flooding				> Every 10 Years		6/12/1905	Days	
26	NHC	88th Ave NW & Marine Dr		Flow from Stillaguamish River can flood park and ride				Flooding				Every 5 Years		2009 or later	Days	
27	NHC	92nd Ave NW & 271st SW		Adverse Slope Pipe near 92nd Ave				Failed Infrastructure				Every 1-2 Years		1/1/2014	Days To Weeks	
28	NHC	Lovers Rd & Lane Rd		Flooding limits agriculture				Flooding				Every 1-2 Years		1/1/2014	Days To Weeks	
29	NHC	Lovers Rd & 102nd Ave NW		Lover's Lane culvert grades and channel limit capacity				Failed Infrastructure				Every 1-2 Years		4/1/2013	Days To Weeks	
30	NHC	102nd Dr NW & 271 St NW		Aged stormwater pipes allow infiltration into the stormwater system				Failed Infrastructure				Ongoing		Ongoing	Ongoing	
31	NHC	Nordic Way & Pioneer Hwy		Pioneer Hills pond is not providing the designed level of flow control				Failed Infrastructure				Ongoing		Ongoing	Ongoing	
32	NHC	287th St NW & 72nd Dr NW		Kylie Park I detention pond is not providing the designed level of flow control				Failed Infrastructure				Ongoing		Ongoing	Ongoing	
33	WSDOT	SR 532 & 270th St Nw		"Pumps not keeping up" at Irvine Slough.				Failed Infrastructure				Other		Other	Other	
34	Survey	8622 270th St NW	downtown behind Viking Village and alongside the tracks across the tracks from Wolf Kill and by Herbs Diner	Standing water on roadway	Non-functioning storm drainage			Flooding	Standing Water			Ongoing			Days	
35	Survey	27616 84th Drive NW	27616 84th Drive NW	Water flowing onto private property from city street				Flooding	Standing Water			Every Time it Rains		1/9/2014	Days	
36	Survey	27813 80th Ave NW	27813 80th Ave NW	Non-functioning storm drainage				Standing Water				Annually		1/15/2013	Other	
37	Survey	271st St NW & 84th Ave NW	84TH NW just south of 271st	Standing water on roadway				Flooding	Standing Water			Every Time it Rains		1/8/2014	Days	
38	Survey	7720 Stauffer Rd	7720 StaufferRd	Water flowing onto private property from city street	Standing water on roadway	Other	NO storm drainage	Flooding	Standing Water	Hillside Erosion	Nearly flooded my garage in last storm.	Every Time it Rains	Near flooding not as much	1/13/2014	Other	How ever long the rains last
39	Survey	7710 Stauffer Rd	7710 Stauffer Rd	Water flowing onto private property from city street				Flooding				Every Time it Rains		1/9/2014	1-6 hours	
40	Survey	Pioneer Hwy & 86th Dr NW	South end of 86th Dr. just before entering Pioneer Hwy	Other			Water flowing across 86th Dr. and down to Pioneer Hwy.					Every Time it Rains			Other	It occurs during and after a moderate to light rain
41	Survey	278th Place NW	Summerset 278th Place NW	Other			City Water Tower property debris runs off onto roadway and into storm system and drainage pond (pond is owned by home owners)	Water Quality	Habitat	Hillside Erosion	City Property runoff debris unnecessarily puts debris in privately owned storm pond and creates additional maintenance and cost burdens on homeowners.	Ongoing	When it rains AND when city trucks (more than once a day) go to the water tower project - trucks bring debris from gravel/dirt road onto roadway. This debris gets in storm system.	41655	Other	Ongoing

City of Stanwood
Stormwater Comprehensive Plan
APPENDIX A.16
DRAINAGE CONCERNS SUMMARY

ID	Source	Address	Flood Depth 1	Flood Depth 2	Date Data Received	Impact of Reported Problem 1	Impact of Reported Problem 2	Impact of Reported Problem 3	Impact of Reported Problem 4	Impact of Reported Problem 5	Impact of Reported Problem 6	Safety Concern?	Description of Safety Concern	Additional Comments	Contact	PACE Notes
1	City Staff	76th Dr NW & 272nd St NW			1/14/2014										Trevor (City)	
2	City Staff	76th Dr NW & 276th St NW			1/14/2014										Trevor (City)	
3	City Staff	268th St NW & Floe Rd			1/14/2014										Trevor (City)	
4	City Staff	96th NW & 271 St NW			1/14/2014										Trevor (City)	
5	City Staff	Lovers Rd/276th St NW			1/14/2014										Trevor (City)	
6	City Staff	Pioneer Hwy & 85th Dr NW			1/14/2014										Trevor (City)	
17	City Staff	92nd Ave NW & 268th St NW			1/14/2014										Trevor (City)	
18	City Staff	90th Ave NW & 271 St NW			1/14/2014										Trevor (City)	
19	City Staff	Lund Hill Rd & Nordic Way			1/14/2014										Trevor (City)	
20	NHC	268th ST NW & 1-4th Dr NW	1 ft.		10/16/2013										Derek Stuart (NHC)	
21	NHC	102nd Ave NW & 268th St NW	3 ft.		10/16/2013										Derek Stuart (NHC)	
22	NHC	102nd Ave NW & 268th St NW	unknown		10/16/2013										Derek Stuart (NHC)	
23	NHC	102nd Ave NW & 268th St NW	Not Applicable		10/16/2013										Derek Stuart (NHC)	
24	NHC	92nd Ave NW & 268th St NW	3 ft.		10/16/2013										Derek Stuart (NHC)	
25	NHC	88th Ave NW & 268th ST NW	Other		10/16/2013										Derek Stuart (NHC)	
26	NHC	88th Ave NW & Marine Dr	3 ft.		10/16/2013										Derek Stuart (NHC)	
27	NHC	92nd Ave NW & 271st SW	1 ft.		10/16/2013										Derek Stuart (NHC)	
28	NHC	Lovers Rd & Lane Rd	1 ft.		10/16/2013										Derek Stuart (NHC)	
29	NHC	Lovers Rd & 102nd Ave NW	3 ft.		10/16/2013										Derek Stuart (NHC)	
30	NHC	102nd Dr NW & 271 St NW	Other		10/16/2013										Derek Stuart (NHC)	
31	NHC	Nordic Way & Pioneer Hwy	Other		10/16/2013										Derek Stuart (NHC)	
32	NHC	287th St NW & 72nd Dr NW	Other		10/16/2013										Derek Stuart (NHC)	
33	WSDOT	SR 532 & 270th St Nw	Other		1/23/2014										Kim Glass (WSDOT)	Correspondence with Kim Glass at WSDOT on 1/23/2014.
34	Survey	8622 270th St NW	1 - 6 inches		1/22/2014	Water over roadway	Water over sidewalk	Impacting vehicles	Impacting pedestrians			Yes				
35	Survey	27616 84th Drive NW	Other	Rained on 1/9 as of 1/14 there is 2 to 4 inches of standing water in back yard	1/22/2014	Flooding yards	Flooding homes					Yes	Water goes under garage floor to backyard, has come up around a metal pole to keep car from hitting gas furnace.	Ground is so waterlogged in spring in backyard on the north side area no one can mow lawn, mud is 4" to 5" deep. By the end of June it has dried out some.	Marilyn Stone	
36	Survey	27813 80th Ave NW	1 - 6 inches		1/22/2014	Flooding homes	Flooding homes					No			Rod Sundberg	Size of project - to be determined.
37	Survey	271st St NW & 84th Ave NW	1 - 6 inches		1/20/2014	Water over roadway	Impacting vehicles					Yes	Swerving to miss the water - splashing on windshields obscuring vision - brakes.		Ralph H. Nichols	Size of project - to be determined.
38	Survey	7720 Stauffer Rd	1 - 6 inches		1/18/2014	Water over roadway	Flooding yards					No			Doug Chandler	
39	Survey	7710 Stauffer Rd	1 - 6 inches		1/16/2014	Flooding yards	Flooding homes	Other			I live halfway down the hill, the water runs under my house to get to the bottom of the hill.	No		The holding pond by my house is a breeding ground for mosquitos.	Helene Watkins	This could be a private issue. Needs to be confirmed where water is coming from that floods these homes. Mosquitos issue at private pond?
40	Survey	Pioneer Hwy & 86th Dr NW	Other	Flowing	1/16/2014	Water over roadway	Impacting vehicles	Impacting pedestrians	Other		Impact w hen it freezes	Yes	When it freezes it would be difficult to stop w hen you are going down to Pioneer Hwy.		Charles R. (Bob) Hitz	
41	Survey	278th Place NW	Other	Debris based on rain and amount of vehicle traffic at the city water tower.	1/16/2014	Other					The drainage pond is privately owned and maintained. The debris from the city property AND the runoff should not go to the storm system on 278th PL NW since it goes to the privately owned pond. This debris decreases the life of the pond and will require residents to pay for servicing the pond and more frequent intervals.	No		The City should take over maintenance and ownership of ALL drainage ponds in the city limits. This will ensure uniformity and proper maintenance. Storm water ponds are the weak link in the system- privately maintained by novice home owners. Modest fees to defer the cost of the maintenance of the pond could be incorporated into existing drainage fees. Housing Developments bring revenue to local business and strengthen the local economy. Support the Stanwood residents and take over the drainage ponds.	Anthony Hardenbrook	Private Issue - Not rated.

City of Stanwood
Stormwater Comprehensive Plan
APPENDIX A.16
DRAINAGE CONCERNS SUMMARY

ID	Source	Address	Original Problem Location From Public Survey	Problem Description 1	Problem Description 2	Problem Description 3	Problem Description 4	Categorization of Problem 1	Categorization of Problem 2	Categorization of Problem 3	Categorization of Problem 4	Frequency of Problem 1	Frequency of Problem 2	Last Occurrence of Problem	Duration of Problem 1	Duration of Problem 2
42	Survey	27030 102nd Dr NW	27030 102nd Dr NW Stanwood WA 98292	Other			Yard floods during heavy rains.	Flooding	Standing Water			Every Time it Rains		1/13/2014	Days	
43	Survey	27008 90th Ave NW	See attached photo - 271st St NW to the North, SR532 South and from 92nd Ave NW to the West, to 88th Ave NW East.	Non-functioning storm drainage	Other		attached photo shows boundaries of the area w/no city stormwater hookup.	Flooding	Water Quality			Other			Other	
44	Survey	27334 Village Pl NW	Church Creek Estates Development	Other			1998 heard lots of frogs, now only silence. Frogs area a good indicator of environmental health	Habitat				Other			Other	
45	Survey	27327 76th Dr NW	27327 76th Dr NW	Non-functioning storm drainage	Other		Water from high school flooding backyards and under house, b.ball field & track under water	Standing Water	Other		Water drains under my house.	Annually			Days	
46	Survey	9332 271st Street NW	9332 271st Street NW	Non-functioning storm drainage	Other		Flooding from Town Center (QFC) property.	Flooding	Standing Water	Other	Health	Ongoing		1/9/2014	Days	
47	Survey	72nd Ave NW	72nd Ave	Water flowing onto private property from city street				Standing Water				Every Time it Rains		1/9/2014	Days	
48	Survey	272nd St NW & 81st Dr NW	At the corner of 81st Dr & 272nd	Standing water on roadway	Non-functioning storm drainage			Standing Water				Every Time it Rains		1/9/2014	24 hours	
50	Survey	8600 Cedarhome Drive	Marine Drive and 271st at the site of recently demolished Wolfkill Feed store	Standing water on roadway	Other	Rain water covers east side of Marine Dr, south of 272nd		Standing Water				Every Time it Rains		12/1/2013	Days	
51	Survey	27126 96th Ave NW	27126 96th Ave NW	Water flowing onto private property from city street	Standing water on roadway	Non-functioning storm drainage		Flooding	Standing Water	Habitat		Every Time it Rains		1/8/2014	Days	
52	Survey	26920 94TH Drive NW	26920 94TH Drive NW, Stanwood WA. 98292	Water flowing onto private property from city street	Standing water on roadway	Standing water on roadway		Flooding	Standing Water			Every Time it Rains		1/7/2014	Days	
53	Survey	27901 86th Drive NW	27901 86th Drive NW and the general neighborhood	Water flowing onto private property from city street	Non-functioning storm drainage		The draining system in this part of town has failed. Homes are being flooded. My property is filled with water every time it rains. Fortunately, my home is not flooded. My property is. Just come and look at the surface drainage on 86th Street and you will see what is happening.	Flooding	Hillside Erosion	Standing Water	Erosion is very slow . Fortunately, there has been no sliding. When that happens, if it happens, it should make for some interesting court cases.	Annually		1/7/2014	Days	
54	Survey	27832 85th Dr NW	27832 85th Dr NW	Water flowing onto private property from city street	Non-functioning storm drainage			Standing Water	Flooding	Failed Infrastructure		Every Time it Rains		1/7/2014	24 hours	
55	City Staff	Irvine Slough		Irvine Slough Electrical & Controls Rehab (no pump upgrades). Replacing the entire electrical and control panels				Failed Infrastructure								
56	City Staff	ISPS		ISPS New Pumps (two each)				Failed Infrastructure								
57	City Staff	Irvine Slough		Irvine Slough. Evaluate stormwater collection system on the north side of SR532 to augment or replace Irvine Slough as flood conveyance.				Flooding								
58	City Staff	85th Street		85th Street Drainage - Collect and convey runoff.				Flooding								
59	City Staff	Citywide		Miscellaneous drainage improvements.				Flooding								
60	City Staff	Citywide		Major maintenance, including Lindstrom pond at Haggens				Flooding								
61	City Staff	Citywide		Comp Plan City - land use, goals and policies, 20140 projected needs, CIP and funding strategies.				Not Applicable								
62	Survey	27218 103rd Dr NW	27218 103rd Dr NW	Standing water in property when it rains				Standing Water				Every Time it Rains		Ongoing		
63	Survey	9326 271st St NW	9326 271st St NW	Standing water in property when it rains				Standing Water				Every Time it Rains		Ongoing		
64	Modeling	271st, 102nd Ave.														
65	Modeling	10199 274th Pl NW														
66	Modeling	27108 103rd Dr NW														

City of Stanwood
Stormwater Comprehensive Plan
APPENDIX A.16
DRAINAGE CONCERNS SUMMARY

ID	Source	Address	Flood Depth 1	Flood Depth 2	Date Data Received	Impact of Reported Problem 1	Impact of Reported Problem 2	Impact of Reported Problem 3	Impact of Reported Problem 4	Impact of Reported Problem 5	Impact of Reported Problem 6	Safety Concern?	Description of Safety Concern	Additional Comments	Contact	PACE Notes
42	Survey	27030 102nd Dr NW	1 ft.		1/14/2014	Flooding yards	Other				Blocks both entrances to house	No		Our yard is a low spot in the neighborhood. Property has storm drain, but it is on the high side near street, so only during extensive flooding does the water drain out.	James Coleman	This could be a private issue. Needs to be confirmed where water is coming from that floods these homes.
43	Survey	27008 90th Ave NW			1/14/2014	Other					Inadequate (sic) cit(y) stormwater conveyance creating unnecessary need for retention ponds. No hookup available.	No			Bill Lenz	
44	Survey	27334 Village Pl NW			1/14/2014	Other					Habitats	No		Use environmental friendly. When spraying for weeds & blackberries. City killed a lot more environment than intended.		Habitat study may be needed. Problem is unknown.
45	Survey	27327 76th Dr NW	1 - 6 inches		1/13/2014	Flooding yards	Other				Floods 5 to 6 backyards	Yes	Not good for foundation, water under my house can cause black mold.		Carol E. Reed	This could be a private issue. Needs to be confirmed where water is coming from that floods these homes.
46	Survey	9332 271st Street NW	2 ft.		1/13/2014	Impacting pedestrians	Flooding homes	Other			Flooding foundation, bad smell, infections from water	Yes	Periodically pump water with portable sump pump and would get hand infection after every pumping episode.	The main issue is a failed water retention system at Stanwood town center: I put yellow dye in their system and my land turned yellow .	Terry Greer	
47	Survey	72nd Ave NW	1 - 6 inches		1/13/2014	Flooding yards	Other	It is flooding the field				No		Drain water from housing hope apts at 72nd & 276th should have been piped over to the storm drain on the east side of 72nd instead of into the ditch on west side.	Wallace Middleton	
48	Survey	272nd St NW & 81st Dr NW	1 - 6 inches		1/13/2014	Water over roadway	Impacting vehicles					No			Hendrick Husby	
50	Survey	8600 Cedarhome Drive	1 - 6 inches		1/10/2014	Water over roadway	Flooding yards					Yes	Cars frequently drive around the standing water or they hydroplane.		Thad Nelson	
51	Survey	27126 96th Ave NW	1 - 6 inches	Usually 1-6 during normal w et season, 2-3 feet during flood stages	1/8/2014	Water over roadway	Water over sidewalk	Flooding yards				Yes	When storm drain fails water is up to 3 feet in street and Library parking lot. It isn't obvious to drivers. It is also a hazard to pedestrians since the storm drain is under water with damaged pavement. It is also a concern with contaminated water.	The issue has increased steadily over the past 10 years and w e have not been able to find a viable w ay to reduce the flooding to our property.	Andy and Julie Johnson	
52	Survey	26920 94TH Drive NW	1 ft.		1/7/2014	Water over roadway	Water over sidewalk	Impacting vehicles	Impacting pedestrians	Flooding yards					Paul I. Kalmakoff	
53	Survey	27901 86th Drive NW	1 - 6 inches		1/7/2014							Yes	Trees fall down when the ground is saturated. We have lost several 50 year old trees that blow over when their feet are wet. It is a new and dangerous phenomena. (spelling is not my strong suit) My neighbor's basements have flooded. I have a crawl space. I have installed a sub pump. The crawl space used to be dry, unless the former owner did not tell the truth. That is not the case now. As I said elsewhere, 50 year old trees have died from the excessive water we are experiencing. I would imagine that the value of my property is going down, down, down. Want to buy it?	Two homes above me have flooded twice from this problem. The entire system has failed and it is no one's fault and apparently no one's concern. We are blessed with surface water from the entire subdivision. Just look at 86th street during and after rain and you will see the problem. It even runs across Pioneer Highway. Thanks for asking. What will be done about it? What can be done about it?	John J. Shaffer	
54	Survey	27832 85th Dr NW	1 - 6 inches		1/30/2014	Flooding homes	Flooding yards							All of the rain water accumulates across the street from us comes over the road and into our yard and down our driveway into our house.	Carol Covert	
55	City Staff	Irvine Slough			2/4/2014										Kevin Hushagen (City)	$245,000 Cost Estimate (2014 CIP Dollars)
56	City Staff	ISPS			2/4/2014										Kevin Hushagen (City)	$105K each to replace, $60K each to rehab. City to decide. Hold until 2015.
57	City Staff	Irvine Slough			2/4/2014										Kevin Hushagen (City)	$300,000 Cost Estimate (2014 CIP Dollars). Off-set by $300,000 Department of Commerce grant through the Nature Conservancy.
58	City Staff	85th Street			2/4/2014										Kevin Hushagen (City)	$30,000 Cost Estimate (2014 CIP Dollars)
59	City Staff	Citywide			2/4/2014										Kevin Hushagen (City)	$10,000 Cost Estimate (2014 CIP Dollars)
60	City Staff	Citywide			2/4/2014										Kevin Hushagen (City)	$25,000 Cost Estimate (2014 CIP Dollars)
61	City Staff	Citywide			2/4/2014										Kevin Hushagen (City)	$100,000 Cost Estimate (2014 CIP Dollars)
62	Survey	27218 103rd Dr NW	1 - 6 inches		2/25/2014	Flooding yards									Jan Williamson	
63	Survey	9326 271st St NW	1 - 6 inches		2/25/2014	Flooding yards										
64	Modeling	271st, 102nd Ave.														
65	Modeling	10199 274th Pl NW														
66	Modeling	27108 103rd Dr NW														